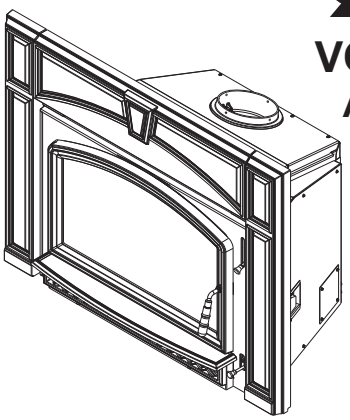
Service parts list has been removed from this manual.
Refer to Owner's Manual or individual service parts list.

QUADRA-FIRE®



VOYAGEUR GRAND WOOD INSERT

Automatic Combustion Control (ACC)

OWNER'S MANUAL
Installation and Operation

Model:
VOYA-GRAND-MBK
VOYA-GRAND-PMH

C ETL LISTED US
Intertek

CAUTION

DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.

⚠ WARNING

If the information in these instructions is not followed exactly, a fire may result causing property damage, personal injury, or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Do not overfire - If heater or chimney connector glows, you are overfiring. Overfiring will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.

⚠ WARNING

Fire Risk.

For use with solid wood fuel only.
Other fuels may overfire and generate poisonous gases (i.e. carbon monoxide).

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends NFI certified professionals, or technicians supervised by an NFI certified professional.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED

Wood Energy Technical Training www.weetinc.ca

⚠ WARNING

HOT SURFACES!

Glass and other surfaces are hot during operation AND cool down.

Hot glass will cause burns.

- Do not touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away
- CAREFULLY SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures.

High temperatures may ignite clothing or other flammable materials.

- Keep clothing, furniture, draperies and other flammable materials away.

NOTE

To obtain a French translation of this manual, please contact your dealer or visit www.quadrafire.com

Pour obtenir une traduction française de ce manuel, s'il vous plaît contacter votre revendeur ou visitez www.quadrafire.com

Congratulations

and Welcome to the Quadra-Fire Family!

Hearth & Home Technologies welcomes you to our tradition of excellence! In choosing a Quadra-Fire appliance, you have our assurance of commitment to quality, durability, and performance.

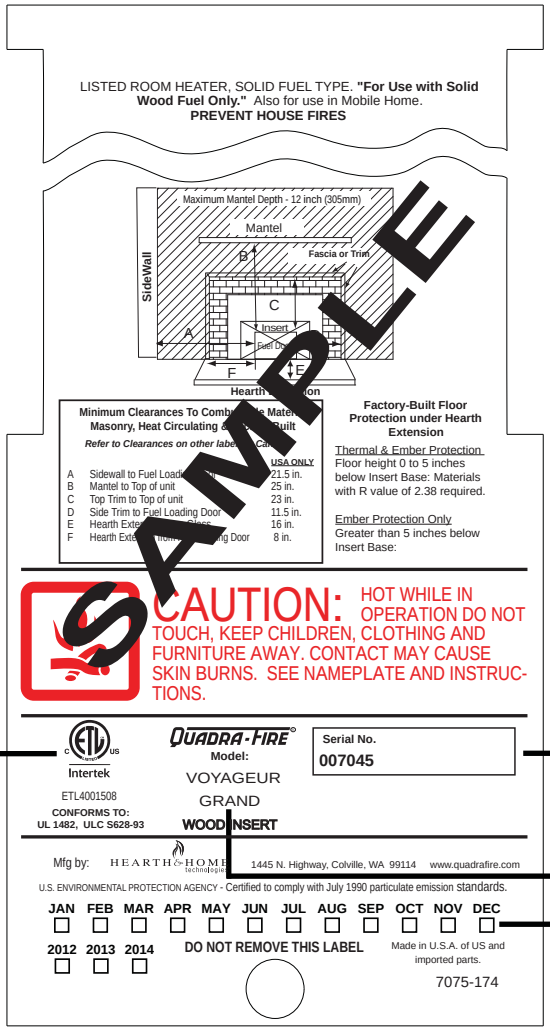
This commitment begins with our research of the market, including 'Voice of the Customer' contacts, ensuring we make products that will satisfy your needs. Our Research and Development facility then employs the world's most advanced technology to achieve the optimum operation of our stoves, inserts and fireplaces. And yet we are old-fashioned when it comes to craftsmanship. Each unit is meticulously fabricated and gold and nickel surfaces are hand-finished for lasting beauty and enjoyment. Our pledge to quality is completed as each model undergoes a quality control inspection.

We wish you and your family many years of enjoyment in the warmth and comfort of your hearth appliance. Thank you for choosing Quadra-Fire.

NOTE: Clearances may only be reduced by means approved by the regulatory authority having jurisdiction

SAMPLE OF SERIAL NUMBER / SAFETY LABEL

LOCATION: UNDER ASH LIP, PULL OUT TO VIEW


LISTED ROOM HEATER, SOLID FUEL TYPE. "For Use with Solid Wood Fuel Only." Also for use in Mobile Home.
PREVENT HOUSE FIRES
Maximum Mantel Depth - 12 inch (305mm)
Mantel
Fascia or Trim
SideWall
Insert
Hearth Extension
Minimum Clearances To Combustible Materials
Masonry, Heat Circulating & Factory Built
Refer to Clearances on other label
USA ONLY
A Sidewall to Fuel Loading Door 21.5 in.
B Mantel to Top of unit 25 in.
C Top Trim to Top of unit 23 in.
D Side Trim to Fuel Loading Door 11.5 in.
E Hearth Extension Sides 16 in.
F Hearth Extension Front Loading Door 8 in.
Factory-Built Floor Protection under Hearth Extension
Thermal & Ember Protection
Floor height 0 to 5 inches below Insert Base: Materials with R value of 2.38 required.
Ember Protection Only
Greater than 5 inches below Insert Base:
SAMPLE
CAUTION: HOT WHILE IN OPERATION DO NOT TOUCH, KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS. SEE NAMEPLATE AND INSTRUCTIONS.
Intertek
ETL4001508
CONFORMS TO: UL 1482, ULC S628-93
QUADRA-FIRE
Model:
VOYAGEUR
GRAND
WOOD INSERT
Serial No.
007045
Mfg by: HEARTH & HOME technologies
1445 N. Highway, Colville, WA 99114 www.quadrafire.com
U.S. ENVIRONMENTAL PROTECTION AGENCY - Certified to comply with July 1990 particulate emission standards.
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
2012 2013 2014
DO NOT REMOVE THIS LABEL
Made in U.S.A. of US and imported parts.
7075-174

Test Lab & Report Number

Serial Number

Model Name

Mfg Date

Safety Alert Key:

- ***DANGER!*** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- ***WARNING!*** Indicates a hazardous situation which, if not avoided may result in death or serious injury.
- ***CAUTION!*** Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.
- ***NOTICE:*** Indicates practices which may cause damage to the appliance or to property.

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Hearth & Home Technologies Inc.
LIMITED LIFETIME WARRANTY

Hearth & Home Technologies Inc., on behalf of its hearth brands (”HHT”), extends the following warranty for HHT gas, wood, pellet, coal and electric hearth appliances that are purchased from an HHT authorized dealer.

WARRANTY COVERAGE:

HHT warrants to the original owner of the HHT appliance at the site of installation, and to any transferee taking ownership of the appliance at the site of installation within two years following the date of original purchase, that the HHT appliance will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by HHT are found to be defective in materials or workmanship during the applicable warranty period, HHT will, at its option, repair or replace the covered components. HHT, at its own discretion, may fully discharge all of its obligations under such warranties by replacing the product itself or refunding the verified purchase price of the product itself. The maximum amount recoverable under this warranty is limited to the purchase price of the product. This warranty is subject to conditions, exclusions and limitations as described below.

WARRANTY PERIOD:

Warranty coverage begins on the date of original purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the product by an independent, authorized HHT dealer/ distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from HHT, regardless of the installation or occupancy date. The warranty period for parts and labor for covered components is produced in the following table.

The term “Limited Lifetime” in the table below is defined as: 20 years from the beginning date of warranty coverage for gas appliances, and 10 years from the beginning date of warranty coverage for wood, pellet, and coal appliances. These time periods reflect the minimum expected useful lives of the designated components under normal operating conditions.

Warranty Period		HHT Manufactured Appliances and Venting							Components Covered
Parts	Labor	Gas	Wood	Pellet	EPA Wood	Coal	Electric	Venting	
1 Year		X	X	X	X	X	X	X	All parts and material except as covered by Conditions, Exclusions, and Limitations listed
2 years				X	X	X			Igniters, electronic components, and glass
		X	X	X	X	X			Factory-installed blowers
			X						Molded refractory panels
3 years				X					Firepots and burnpots
5 years	1 year			X	X				Castings and baffles
7 years	3 years		X	X	X				Manifold tubes, HHT chimney and termination
10 years	1 year	X							Burners, logs and refractory
Limited Lifetime	3 years	X	X	X	X	X			Firebox and heat exchanger
90 Days		X	X	X	X	X	X	X	All replacement parts beyond warranty period

See conditions, exclusions, and limitations on next page.

WARRANTY CONDITIONS:

- This warranty only covers HHT appliances that are purchased through an HHT authorized dealer or distributor. A list of HHT authorized dealers is available on the HHT branded websites.
- This warranty is only valid while the HHT appliance remains at the site of original installation.
- Contact your installing dealer for warranty service. If the installing dealer is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the product.
- Check with your dealer in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this warranty.

WARRANTY EXCLUSIONS:

This warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items, or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
- Repair or replacement of parts that are subject to normal wear and tear during the warranty period. These parts include: paint, wood, pellet and coal gaskets, firebricks, grates, flame guides, light bulbs, batteries and the discoloration of glass.
- Minor expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the appliance in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the appliance; (2) failure to install the appliance in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operating instructions; (7) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the appliance.
- Non-HHT venting components, hearth components or other accessories used in conjunction with the appliance.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas appliance is installed.
- HHT's obligation under this warranty does not extend to the appliance's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper appliance for the application. Consideration must be given to appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

This warranty is void if:

- The appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plates or tubes, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The appliance is subjected to prolonged periods of dampness or condensation.
- There is any damage to the appliance or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.

LIMITATIONS OF LIABILITY:

- The owner's exclusive remedy and HHT's sole obligation under this warranty, under any other warranty, express or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above. In no event will HHT be liable for any incidental or consequential damages caused by defects in the appliance. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you may also have other rights, which vary from state to state. EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE.

□st□n□ □nd □ode A□□ro□□s

A. Appliance Certification

□ode□□	VOYAGEUR GRAND Wood Insert
□□□or□tor□□	Intertek
Re□ort No□	100868597PRT-001
□□□e□	Solid Fuel Type, Listed Room Heater
□t□nd□rd□	□L1482 and □LC S628-93 and (UM) 84-HUD, Mobile Home Approved.

NOTE□This installation must conform with local codes. In the absence of local codes you must comply with the □L1482, (UM) 84-HUD and NPFA211 in the U.S.A. and the ULC S628-93 and CAN/CSA-B365 Installation Codes in Canada.

The Quadra-Fire VOYAGEUR GRAND meets the U.S. Environmental Protection Agency's 1990 particulate emission standards.

Interte□ □est□n□ □□□or□tor□ □s □N□t□on□□Re□o□n□□ed □est □□□ □NR□□□□□□ro□ed □□O□□A□

□□ □o□□e □o□ e A□□ro□ed

- This appliance is approved for mobile home installations when not installed in a sleeping room and when an outside combustion air inlet is provided.
- The structural integrity of the mobile home floor, ceiling, and walls must be maintained.
- The appliance must be properly grounded to the frame of the mobile home with □8 copper ground wire, and use only listed connector pipe.
- Outside Air Kit, part OAK-ACC must be installed in a mobile home installation.

C. Glass Specifications

This stove is equipped with 5mm ceramic glass. Replace glass only with 5mm ceramic glass. Please contact your dealer for replacement glass.

D. BTU & Efficiency Specifications

EPA Certified:	3.1 grams per hour
Efficiency:	80□
□□**U O□t□□t□**	10,700 to 28,500 per hr
□e□t□n□ □□□□□t□□	1,100 to 2,800 sq ft depending on climate zone
Vent □□e□	6 inches
□re□o□ □□e□	2.35 cubic feet
□ □□ **Wood □en□t□□**	21 inches
□□e□	Cord Wood
□□□□n□ **We□□t□**	389 lbs

⚠ WARNING

Fire Risk.

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions□

- Installation and use of any damaged appliance.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.
- Operating appliance without fully assembling all components.
- Operating appliance without legs attached (if supplied with unit).
- Do NOT Overfire - If appliance or chimney connector glows, you are overfiring.

Any such action that may cause a fire hazard.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.
For assistance or additional information, consult a qualified installer, service agency or your dealer.

NOTE□Hearth & Home Technologies, manufacturer of this appliance, reserves the right to alter its products, their specifications and/or price without notice.

Quadra-Fire is a registered trademark of Hearth & Home Technologies.

User G□□de

2 O□er□t□n□ Instr□□t□ons

⚠ WARNING

□O□ □UR□A□E□□

Glass and other surfaces are hot during operation AND cool down.

□ot □□□ss □ □□□□□□se □□rns□

- **DO NO□** touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away
- CAREFULLY SUPERVISE children in same room as appliance.
- Alert children and adults to hazards of high temperatures.

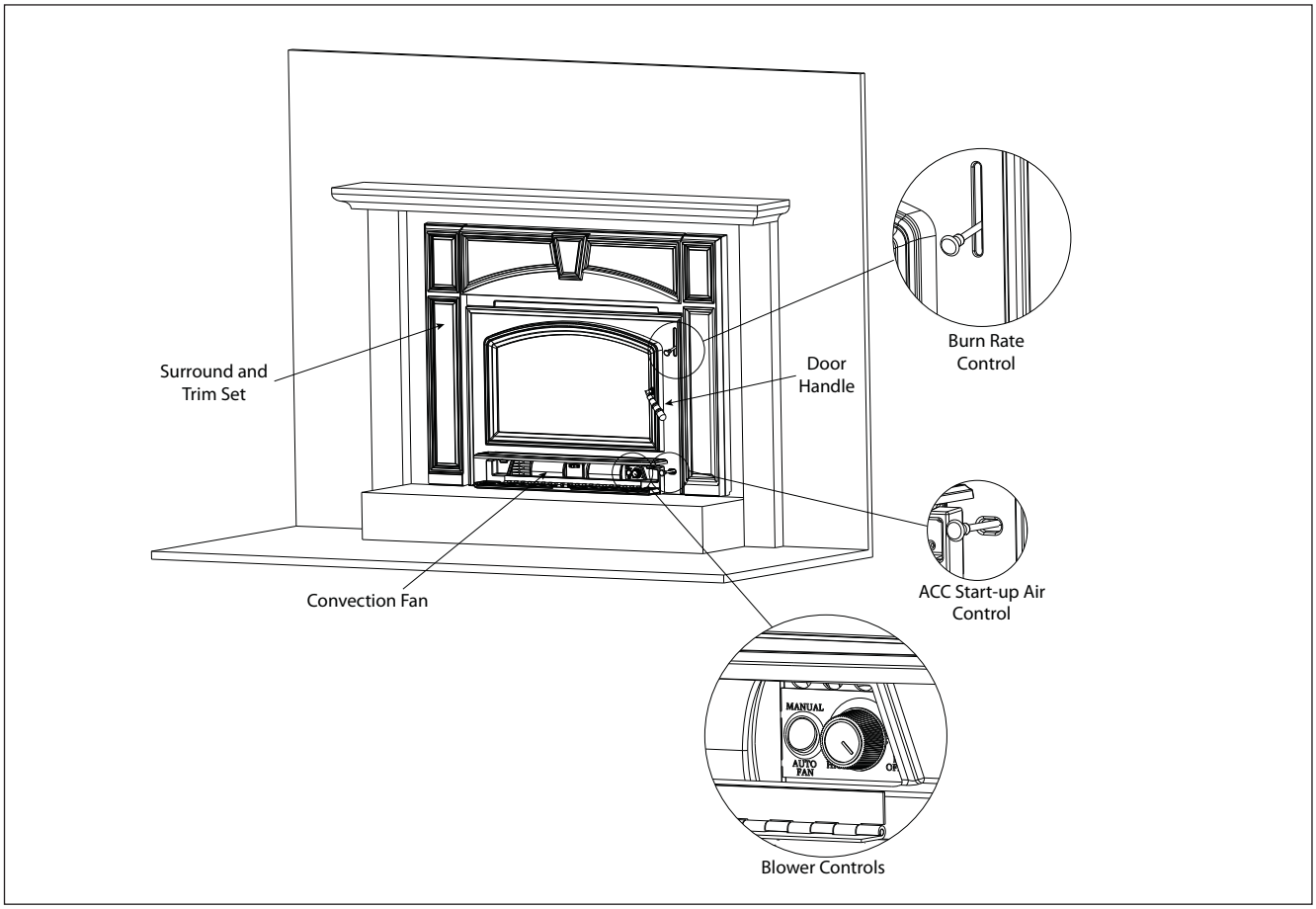
High temperatures may ignite clothing or other flammable materials.

- Keep clothing, furniture, draperies and other flammable materials away.

If you expect that children may come into contact with this appliance, we recommend a barrier such as a decorative screen. See your dealer for suggestions.

A□Yo□r Wood A□□□□n□e

WARNING! DO NOT operate appliance before reading and understanding operating instructions.
Failure to operate appliance according to operating instructions could cause fire or injury.



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□□□re □□et□

To provide reasonable fire safety, the following should be given serious consideration□

1. Install at least one smoke detector on each floor of your home to ensure your safety. They should be located away from the heating appliance and close to the sleeping areas. Follow the smoke detector manufacturer□s placement and installation instructions, and be sure to maintain regularly.
2. A conveniently located Class A fire extinguisher.
3. A practiced evacuation plan, consisting of at least two escape routes.
4. In the event of a chimney fire:
   a. Prepare occupants for immediate evacuation
   b. Notify fire department

C. Overfiring

WARNING

□re R□s□

Do not over-fire.

Over-firing may ignite creosote or will damage the stove and chimney.

To prevent over-firing your stove, DO NOT:

- Use flammable liquids
- Overload with wood
- Burn trash or large amounts of scrap lumber
- Permit too much air to the fire
- Use of processed solid fuel fire logs

□□□□ □to□ s o□O□er□□rn□

Symptoms of over-firing may include one or more of the following□

- Chimney connector or appliance glowing
- Roaring, rumbling noises
- Loud cracking or banging sounds
- Metal warping
- Chimney fire

□□W□□t □o Do □□Yo□r A□□□□n□e □s O□er□□rn□

- Immediately close the door and air controls to reduce air supply to the fire.
- If you suspect a chimney fire, call the fire department and evacuate your house.
- Contact your local chimney professional and have your appliance and stove pipe inspected for any damage.
- Do not use your appliance until the chimney professional informs you it is safe to do so.

Hearth & Home Technologies WILL NOT warranty appliances that exhibit evidence of over-firing. Evidence of over-firing includes, but is not limited to:

- Warped air tube
- Deteriorated refractory brick retainers
- Deteriorated baffle and other interior components

D□□o□ □□st□□e□Non□□o□ □□st□□e □ □ter□□s

- **□o□ □□st□□e □ □ter□□**
  Material made of or surfaced with wood, compressed paper, plant fibers, plastics, or any material capable of igniting and burning, whether flame-proofed or not, plastered or unplastered.
- **Non□□o□ □□st□□e □ □ter□□**
  Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, slate, glass or plasters, or any combination thereof.
  Materials that are reported as passing ASTM E 136, Standard Test Method for Behavior of Materials in a □ertical Tube Furnance at 750 ºC and □L763 shall be considered non-combustible materials.
- **Non□□o□ □□st□□e □e□□nt □ □ter□□**
  Sealants which will not ignite and burn□Rutland, Inc. Fireplace Mortar □63, Rutland 76R, Nuflex 304, GE RTV106 or GE RTB116 (or equivalent).

E□ □e□soned Wood

Burn only dry seasoned wood.

- Store wood under cover, out of the rain and snow.
- Dry and well-seasoned wood will not only minimize the chance of creosote formation, but will give you the most efficient fire.
- Even dry wood contains at least 15% moisture by weight, and should be burned hot enough to keep the chimney hot for as long as it takes to dry the wood out - about one hour.
- It is a waste of energy to burn unseasoned wood of any kind.

Dead wood lying on the forest floor should be considered wet, and requires full seasoning time.

- Standing dead wood can be considered to be about 2/3 seasoned.
- To tell if wood is dry enough to burn, check the ends of the logs.
- If there are cracks radiating in all directions from the center, it is dry.
- If your wood sizzles in the fire, even though the surface is dry, it may not be fully cured.

□□ □□rn□n□ □ro□ess

In recent years there has been an increasing concern about air quality. Much of the blame for poor air quality has been placed on the burning of wood for home heating.

In order to improve the situation, we at Quadra-Fire have developed cleaner-burning wood appliances that surpass the requirements for emissions established by our governing agencies.

These wood appliances must be properly operated in order to ensure that they perform the way they are designed to perform.

NO□I□E□ Improper operation can turn any wood appliance into a smoldering environmental hazard.

□□ □□nd□n□ or □□rst □t□□e

It helps to know a little about the actual process of burning in order to understand what goes on inside the appliance. The first stage of burning is called the kindling stage.

In this stage□

- Wood is heated to a temperature high enough to evaporate the moisture present in all wood.
- Wood will reach the boiling point of water (212°F) and will not get any hotter until the water is evaporated.

This process takes heat from the coals and tends to cool the appliance.

Fire requires three things to burn□

- Fuel
- Air
- Heat

If heat is robbed from the appliance during the drying stage, the new load of wood has reduced the chances for a good clean burn.

It is always best to burn dry, seasoned firewood. When the wood isn□t dry, you must open the air controls and burn at a high burn setting for a longer time to start it burning.

The heat generated from the fire should be warming your home and establishing the flue draft, not evaporating the moisture out of wet, unseasoned wood, resulting in wasted heat.

□□ □e□ond □t□□e

In the secondary stage wood gives off flammable gases which burn above the fuel with bright flames.

During this stage of burning□

- The flames must be maintained and not allowed to go out to ensure the cleanest possible fire.
- If the flames tend to go out, it is set too low for your burning conditions.

The air control located at the upper right hand corner is used to adjust for burn rates. This is called the Burn Rate Air Control.
□□□□re □□□□on □□□e □□□

□□ □□n□□□t□□e

The final stage of burning is the charcoal stage. This occurs when the flammable gases have been mostly burned and only charcoal remains. This is a naturally clean portion of the burn. The coals burn with hot blue flames.

- It is very important to reload your appliance while enough lively hot coals remain in order to provide the amount of heat needed to dry and rekindle the next load of wood.
- It is best to open the Burn Rate Air and Start-Up Air Controls ***before reloading***. This livens up the coalbed and reduces excessive emissions (opacity/smoke).
- Open door slowly so that ash or smoke does not exit appliance through opening.
- Break up any large chunks and distribute the coals so that the new wood is laid on hot coals.

Air quality is important to all of us, and if we choose to use wood to heat our homes we should do so responsibly.

We need to learn to burn in the cleanest way possible allowing us to continue using our wood appliances for many years to come.

G□A□to□ □t□□ □o□ □□st□on □ontro□A□□□

Typically, when you build a fire, you open the air controls fully and monitor the fire to prevent it from going into an overfire situation and/or burning your wood up too quickly before you shut down the air controls to the desired burn rate.

When using the Automatic Combustion Control (ACC) system, you do not have to continually monitor the fire. Once you set the ACC system it will control the fire for you. Follow the instructions below to learn how to operate your stove with ease.

□□A□r □ontro□s

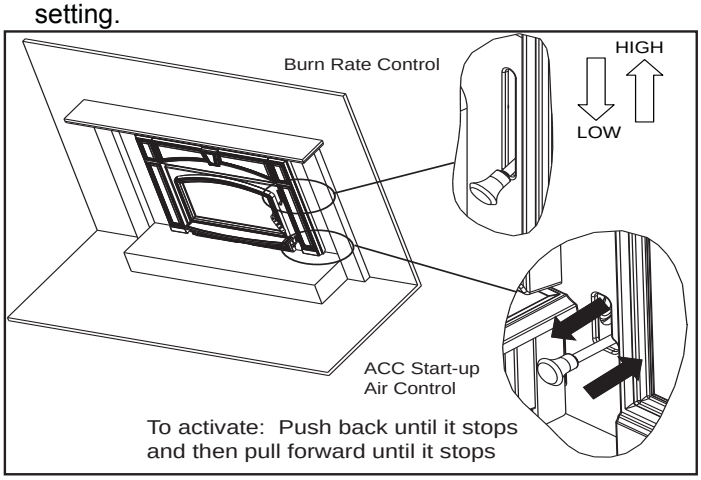
□□□t□rt□U□ A□r □ontro□

The function of the Start-Up Air Control is to activate the Automatic Combustion Control system (ACC).

- Push the Start-Up Air Control all the way back until it stops and then pull forward to the front of the appliance until it stops. □□□re □□□□□
- The air channel opens and allows air to enter the front of the appliance for approximately 20-25 minutes.
- The air channel gradually shuts down until it is completely closed at the end of the 20-25 minutes.
- The fire is now controlled by the air supplied by the Burn Rate Air Control. □□□re □□□□□
- This function should be performed each time you reload the appliance.

□□ □□rn R□te A□r □ontro□

- The air supply enters at the upper front of the firebox, near the top of the glass door.
- This preheated air supplies the necessary fresh oxygen to mix with the unburned gases, helping to create the second, third and fourth combustion process.
- This air is regulated by the Burn Rate Air Control.
- There are four settings High, Medium-High, Medium-Low and Low.
- When the control is raised all the way up it is on the High setting and when pushed all the down it is on the Low setting.



□□□re □□□□ □t□rt□□□ □nd □□rn R□te A□r □ontro□s

I. Burn Rates and Operating Efficiency

For maximum operating efficiency

1. Burn dry, well-seasoned wood.
2. Follow these burn rate instructions below and refer to □□□□re □□□□□

□NO□E□ These are guidelines. Actual settings may vary with type of wood, chimney draft, altitude and other variables.

□□rn R□tes

□□ □t□rt□n□ □ □□re □nd Re□o□d□n□

- Open both controls fully by raising the Burn Rate Air Control all the way up until it stops and push the Start-up Air Control back until it stops.
- The blower tends to cool the appliance. Leave the blower off until the burn is well established, i.e., 30 minutes.
- After loading the appliance with wood and starting the fire, set both controls to the desired setting by following the burn rate instructions below.

□□ □□□□ □□rn R□te □□ □□□□ □□ □e□t□

- Raise the Burn Rate Air Control all the way up until it stops (top marker) to a fully open position.
- Push the Start-Up Air Control all the way back until it stops and leave it there.
- This setting over-rides the timer system (ACC) so you must monitor the fire closely while in this setting.

□□ □ed□□□ □□□□ □□rn R□te □□□□□□□ to □□□□□□ □□U□□r□

- Raise the Burn Rate Air Control all the way up until it stops to a fully open position.
- Push the Start-Up Air Control all the way back until it stops and then pull forward until it stops.
- This activates the timer system (ACC).

□□ □ed□□□ □□o□ □□rn R□te □□□□□□□ to □□□□□□ □□U□□r□

- Raise the Burn Rate Air Control up 1/4 from lowest position.
- Push the Start-Up Air Control all the way back until it stops and then pull forward until it stops.
- This activates the timer system (ACC).

□□ □o□ □□rn R□te □□e□o□ □□□□□□ □□U□□r□

- Leave the Burn Rate Air Control at its lowest position.
- Push the Start-Up Air Control all the way back until it stops and then pull forward until it stops.
- This activates the timer system (ACC).

J. Correct Baffle & Blanket Placement

WARNING

□re R□s□

Improper baffle placement may cause:

- Overheating of firebox
- Overheating the chimney

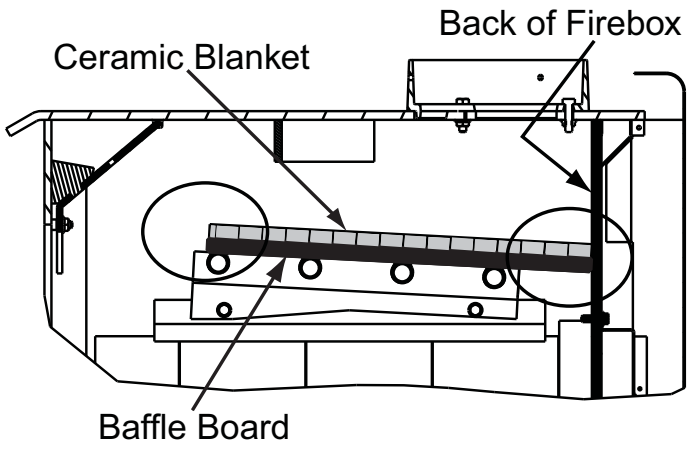
Baffle must be placed properly (see instructions)

Replace baffle if damaged or missing.

NO□E□ A missing, damaged or improperly positioned baffle is dangerous and may cause damage and poor efficiency. It will also void your warranty.

Note: *This are generic drawings and may not represent your specific model.*

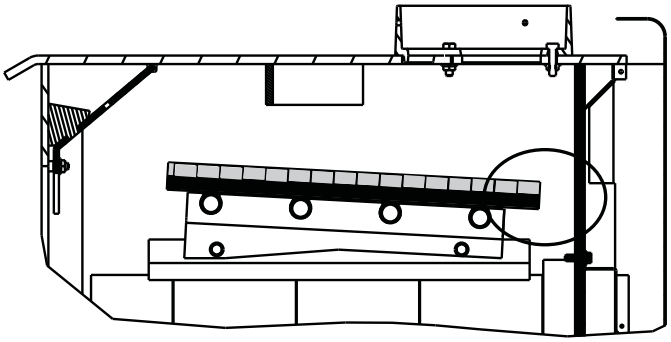
□ORRE□□ □O□I□ION



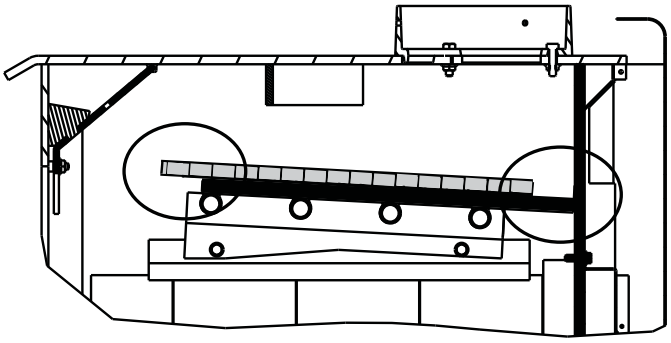
Ceramic Blanket and Baffle Board MUST be in contact with the back of the firebox and even with each other in the front.

□□□□re □□□□ □Correct Baffle and Blanket Positions

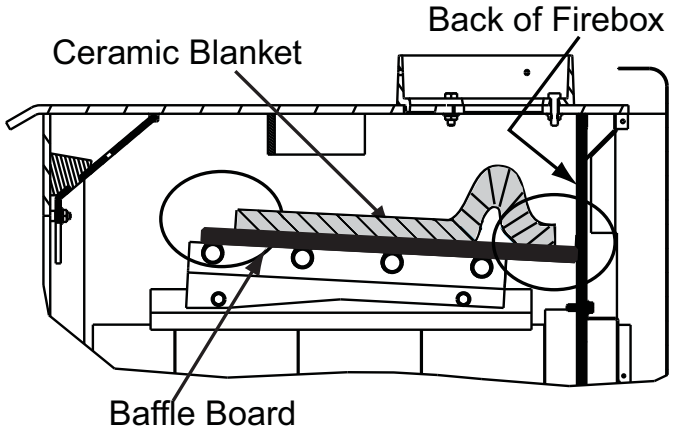
IN□ORRE□□ □O□I□ION□



Ceramic Blanket and Baffle Board are NOT in contact with the back of the firebox.



Ceramic Blanket is NOT in contact with the back of the firebox and NOT even with the Baffle Board in the front.



Ceramic Blanket is bunched up at the back of the firebox and NOT even with the Baffle Board in the front.

□□□□re □□□□ □Incorrect Baffle and Blanket Positions

□□ □□□d n□ A □re

⚠ WARNING

□re R□s□□

Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do NOT store flammable materials in the appliance's vicinity.
- DO NOT USE GASOLINE, LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID OR SIMILAR LIQUIDS TO START OR "FRESHEN UP" A FIRE IN THIS HEATER.
- Keep all such liquids well away from the heater while it is in use.
- Combustible materials may ignite.

Before lighting your first fire in the appliance:

1. Confirm the baffle and ceramic blanket are correctly positioned. They should be even with the front tube and resting on all tubes. □ee □□□e □□□
2. Remove all labels from glass.

There are many ways to build a fire. The basic principle is to light easily-ignitable tinder or paper, which ignites the fast burning kindling, which in turn ignites the slow-burning firewood. Here is one method that works well□

1. Open the Burn Rate Air and Start-Up Air Controls fully.
2. Place several wads of crushed paper on the firebox floor. Heating the flue with slightly crumpled newspaper before adding kindling keeps smoke to a minimum.
3. Lay small dry sticks of kindling on top of the paper.
4. Make sure that no matches or other combustibles are in the immediate area of the appliance. Be sure the room is ventilated and the flue unobstructed.
5. Light the paper in the appliance. NE□ER light or rekindle fire with kerosene, gasoline, or charcoal lighter fluid; the results can be fatal.
6. Once the kindling is burning quickly, add several full-length logs 3 to 4 inches (76 - 102mm) in diameter. Be careful not to smother the fire. Stack the pieces of wood 1/2 to 1 inch apart (13-25mm); near enough to keep each other hot, but far enough away from each other to allow air flow between them.
7. Set the Burn Rate Air Control and activate the timer system (ACC).
8. When ready to reload, it is best to fully open both the Burn Rate Air and Start-up Air Controls ***before reloading***.

- This livens up the coal bed and reduces excessive emissions (opacity/smoke).
  - Large logs burn slowly, holding a fire longer.
  - Small logs burn fast and hot, giving quick heat.

□□ □□e□Re□o□d n□ Instr□□t□ons

1. This appliance has a large door with an exceptional view of the fire.
   - Opens to about 90 degrees and has a built-in stop.
   - Door opens 26 inches (660mm) which goes beyond the standard size hearth pad covering the floor in front of the appliance.
     - May want to use a hearth rug in front of the hearth pad to protect the flooring from ash spillage and continuous cleaning of carpet, etc. See drawing on □□□e □□□
2. Open door slowly so that ash or smoke does not exit appliance through opening.
   - Check the level of the ash build-up. Remove ash if it reaches the top of the brick covers. Ash should not be spilling over the brick covers onto the ashlip.
   - Any ash on the ashlip can be pressed into the door gasket and shorten the life of the gasket.
   - If the ash is left to accumulate on the ashlip it can interfere with the door closing and/or falling out onto the hearth pad or beyond.

Check the ash level each time you reload.

NO□E□

- Build fire on brick firebox floor only.
- Do NOT use grates or other methods to support fuel.

It will adversely affect emissions.

□AU□ION

Odors and vapors released during initial operation.

- Curing of high temperature paint.
- Open windows for air circulation.

Odors may be irritating to sensitive individuals.

Wood Use

WARNING

Fire Risk

- DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPTHA OR ENGINE OIL.
- DO NOT USE CHEMICALS OR FLUIDS TO START A FIRE.
- Do NOT burn treated wood or wood with salt (driftwood).
- May generate carbon monooxide if burn material other than wood.

May result in illness or possible death.

Hardwood vs Softwood

Your appliance performance depends on the quality of the firewood you use.

- Seasoned wood contains about 8,000 BTUs per pound .
- Hard woods are more dense than soft woods.
- Hard woods contain 60% more BTUs than soft woods.
- Hard woods require more time to season, burn slower and are harder to ignite.
- Soft woods require less time to dry, burn faster and are easier to ignite.
- Start the fire with softwood to bring the appliance up to operating temperature and to establish draft.
- Add hardwood for slow, even heat and longer burn time.

Soft woods	Hard woods
• Douglas Fir	• Oak
• Pine	• Maple
• Spruce	• Apple
• Cedar	• Birch
	• Poplar
	• Aspen
	• Alder

Processed Wood Products

- NOT permitted for use in this appliance

Moisture

The majority of the problems appliance owners experience are caused by trying to burn wet, unseasoned wood.

- Wet, unseasoned wood requires energy to evaporate the water instead of heating your home, and
- Causes evaporating moisture which cools your chimney, accelerating formation of creosote.

WARNING

Fire Risk

- Do NOT burn wet or green wood.
- Store wood in dry location.
- Stack wood so both ends are exposed to air.

Wet, unseasoned wood can cause accumulation of creosote.

Seasoned Wood

- Cut logs to size
- Split to 6 inches (152 mm) or less in diameter
- Air dry to a moisture content of not more than 20%
  - Soft wood - about nine months to dry
  - Hard wood - about eighteen months to dry

NOTE Seasoning time may vary depending on drying conditions.

Storing Wood

Steps to ensure properly seasoned wood

- Stack wood to allow air to circulate freely around and through woodpile.
- Elevate wood pile off ground to allow air circulation underneath.
- Smaller pieces of wood dry faster. Any piece over 6 in. (152 mm) in diameter should be split.
- Wood (whole or split) should be stacked so both ends of each piece are exposed to air. More drying occurs through the cut ends than the sides.
- Store wood under cover to prevent water absorption from rain or snow. Avoid covering the sides and ends completely.

WARNING

Fire Risk

Do NOT store wood

- In front of the appliance.
- In space required for loading or ash removal.

N□ □□o□er □ontro□□o□ □ □n□□ D□s□ O□er□t□n□ Instr□□t□ons

1. The blower will turn on/off automatically when set to AUTO. □□□□re □□□□□
2. When set to MANUAL, the fan will turn on/off only when you turn it on or off. This setting over-rides the internal snap disc.
3. Swing the grille downward to expose the blower controls. Adjust the speed of the fan by turning the HIGH/ LOW knob to the desired setting.

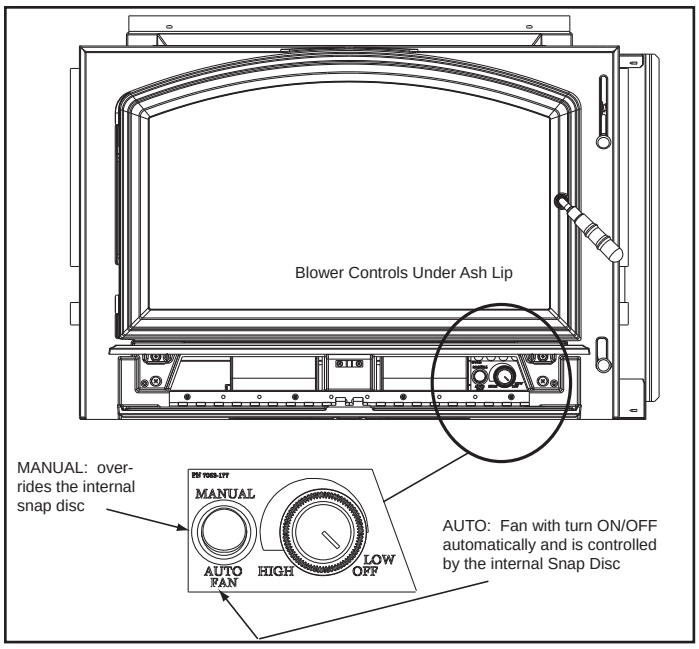
O□ □□o□er O□er□t□n□ Instr□□t□ons

1. **In□t□□□□□o□d□st□rt□□□** Open both controls fully by raising the Burn Rate Air Control all the way up until it stops and PUSH the Start-up Air Control back until it stops. The blower tends to cool the appliance. Leave the blower off until the burn is well established, i.e., 30 minutes.
2. **□□□□□□ □□rn □ett□n□□** Both controls are open. Burn Rate Air Control is pulled up and the Start-up Air Control is fully pushed in. Blower may remain on.
3. **□ed□□□ □□□□□ □□rn □ett□n□□□** Burn Rate Air Control is closed then opened to 1 inch to fully open (pull up). Blower may remain on.
4. **□ed□□□-□o□ □□rn □ett□n□□□** Burn Rate Air Control is closed then opened to 1/4 inch to 1/2 inch (pull up). Leave the blower off until the burn is well established, i.e., 30 minutes.
5. **□o□ □□rn □ett□n□□□** Burn Rate Air Control is closed (down position). Leave the blower off until the burn is well established, i.e., 30 minutes.

   □NO□E□ For burn settings 3 to 5 the Start-up Air Control needs to be pushed in (Open) then pulled forward to activate the Automatic Combustion Control (ACC).

   NO□E□ For maximum efficiency and lowest emissions, when operating the blower in either the automatic or manual setting for the low and medium low burn settings leave the blower off until the burn is well established, i.e., 30 minutes.

6. The blower is equipped with a rheostat (speed control). The highest blower speed is obtained by turning the rheostat on, then adjusting back towards “OFF” as far as possible without turning the blower off. For a low blower speed, turn the control knob clockwise as far as possible


Blower Controls Under Ash Lip
MANUAL: over-rides the internal snap disc
MANUAL
AUTO FAN
HIGH
LOW OFF
AUTO: Fan with turn ON/OFF automatically and is controlled by the internal Snap Disc

□□□□re □□□□

NOTICE!

Do NOT operate a circulating fan within close proximity, approximately 4 ft (1.2m), of appliance

- Can reverse air flow, blowing hot air into appliance cavity.
- Can damage appliance blower due to overheating.

□□ □□e□r □□□□e

- Do NOT place combustible objects within 4 ft (1.2 m) of the front of fireplace. □□□□re □□□□.

⚠ WARNING

□re R□s□□

- Do NOT place combustible objects within 48 inches in front of the appliance.
- High temperatures may ignite clothing, furniture or draperies.

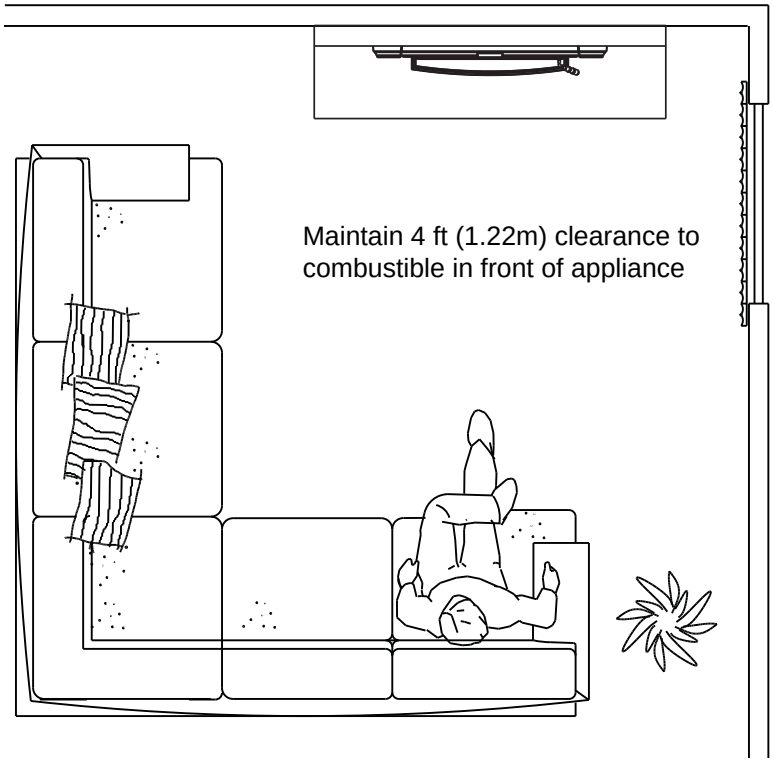
R□ O□□□t□ □□ o□e□

Opacity is the measure of how cleanly your appliance is burning.

Opacity is measured in percent□

- 100% opacity is when an object is totally obscured by the smoke column from a chimney, and
- 0% opacity means that no smoke column can be seen.

As you become familiar with your appliance, you should periodically check the opacity. This will allow you to know how to burn as nearly smoke-free as possible (goal of 0% opacity).



□□□re □□□□ □□e□r □□□□e

NOTICE!

Do NOT operate a circulating fan within close proximity, approximately 4 ft (1.2m), of appliance

- Can reverse air flow, blowing hot air into appliance cavity.
- Can damage appliance blower due to overheating.

□□ □re□□ent□□ As□ed □□est□ons

I□□UE□	□O□U□ION□
Odor from appliance	When first operated, this appliance may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the appliance.
Whirring sound	The blower may produce a whirring sound which increases in volume as the speed is increased.

□AU□ION

Odors and vapors released during initial operation.

- Curing of high temperature paint.
- Open windows for air circulation.

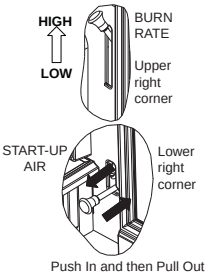
Odors may be irritating to sensitive individuals.

□□□ □□□□ □t□rt G□□de

Note: *These are generic drawings and may not represent your specific model.*

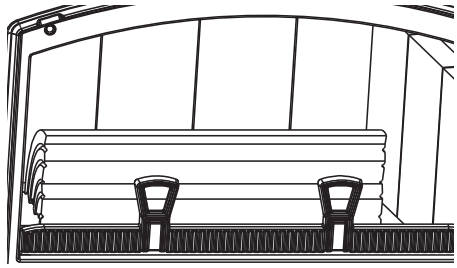
FIRST FIRE ITEMS NEEDED: 10 Pieces of Newspaper, 10-20 Pieces of Dry Kindling and a Few Pieces of Dry Split Wood.

O□EN AIR □ON□RO□□



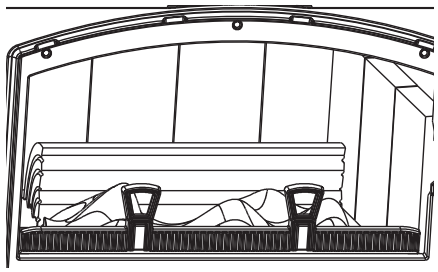
1

□OAD WOOD



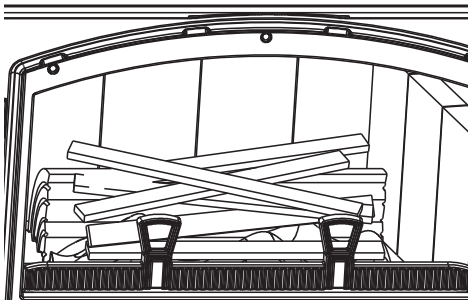
2

ADD NEW□□A□ER



3

ADD □IND□ING



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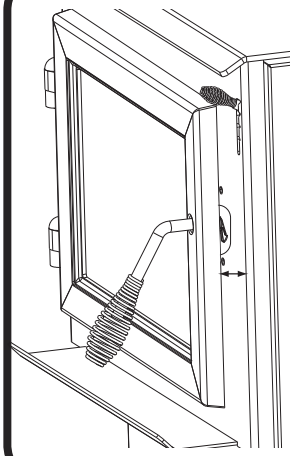
4



WARNING! Risk Of Fire

DO NOT LEAVE UNATTENDED

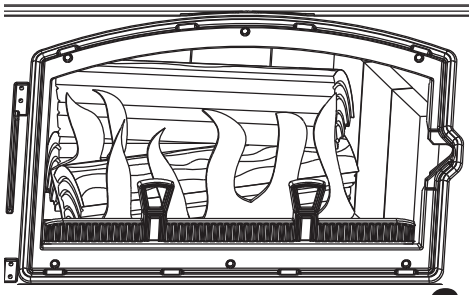
During startup, if additional draft is needed, allow the door to remain open approximately1/2 inch. Once the draft is established, close and securely latch the door to prevent□

- Spillage of smoke, flame and carbon monoxide
- Spillage of sparks, coals and logs
- Over-firing

DO NO□ □e□□e t□e sto□e □n□t□ tended □ t□ t□e door o□en

5

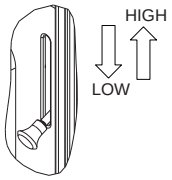
ADD □ORE WOOD □ □E□URE□Y □A□□□ □□E DOOR



6

REDU□E AIR □ON□RO□

Set to desired heat output



BURN RATE CONTROL
Upper Right Corner

7

The stove is ready for normal operation.

□ □□nten□n□e □nd □er□□□e

A□ D□s□os□□o□As□es

- **Frequency:** When ash reaches the top of the brick covers (should not spill over covers). Leave 1/4 inch (6mm) of ash in the bottom of the firebox.
- **By:** Homeowner

WARNING! Risk of Fire! *Ashes could contain hot embers.*

- Place ashes in a metal container with a tight-fitting lid.
- The closed container should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal.
- If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled

□□ □□□□m□ne□ □nd □□□□m□ne□ □onne□tor Ins□e□t□on□□□e□n□n□

- **Frequency:** Every 2 months during heating season or as recommended by a certified chimney sweep; more frequently if chimney exceeds or is under 14-16 feet (4.3 to 4.8m) measured from bottom of appliance.
- **By:** Certified chimney sweep
- Remove all ash from the firebox and extinguish all hot embers before disposal.
- Allow the appliance to cool completely.
- If your type of installation involves a full reline of the chimney, it will be necessary to either remove the baffle from the insert, or remove the insert from the fireplace and disconnect the vent prior to cleaning the chimney. Refer to □□□**e** □□ in this manual for instructions on Baffle Removal.
- If your type of installation is direct connect within a masonry chimney, the insert will need to be pulled out from the fireplace and disconnected from the flue prior to cleaning the chimney.
- The creosote or soot should be removed with a brush specifically designed for the type of chimney in use.
- Clean out fallen ashes from the firebox.
- It is also recommended that before each heating season the entire system be professionally inspected, cleaned and repaired if necessary.

WARNING! Risk of Fire!

Do not use chimney cleaners or flame colorants in your appliance. It will corrode your pipe.

□reosote □□or□ □t□on □nd Need □or Re□ o□□□

- When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote.
- The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire.
- As a result, creosote residue accumulates on the flue lining. When ignited this creosote makes an extremely hot fire.
- The chimney and chimney connector shall be inspected every two months during the heating season to determine when a creosote buildup has occurred.
- When creosote has accumulated it shall be removed to reduce the risk of a chimney fire.

□□A□□□□n□e Ins□e□t□on □Ro□t□ne

- □re□□en□□□Every 2 months at the same time the chimney and chimney connector are inspected.
- **By:** Homeowner

Check for□

- Cracks in glass
- Door handle - smooth cam operation
- Baffle and ceramic blanket correct placement
- Baffle for warpage
- Firebrick for cracks, broken or crumbly
- Door gasket. (Dollar bill test). Place a dollar bill between the stove and the door and then shut the door. If you can pull the dollar bill out, replace the door gasket.
- Glass frame for loose screws

D□□□e□n□n□ □□□ted □□r□□□es

- **Frequency:** As desired
- **By:** Homeowner
- Clean all the fingerprints and oils from plated surfaces □**E**□**ORE** firing the appliance for the first time.
- If not cleaned properly before lighting your first fire, the oils can cause permanent markings on the plating.
- After the plating is cured, the oils will not affect the finish and little maintenance is required.
- Wipe clean as needed.

CAUTION! Do not use polishes with abrasives. *It will scratch plated surfaces.*

E□G□ss □e□n□n□

- **Frequency:** As desired
- **By:** Homeowner
- Clean glass with a non-abrasive glass cleaner. Abrasive cleaners may scratch and cause glass to crack.
- If the deposits on the glass are not very heavy, normal glass cleaners work well. Heavier deposits may be removed by using a damp cloth dipped in wood ashes or by using a commercially available oven cleaner.
- After using an oven cleaner, it is advisable to remove any residue with a glass cleaner or soap and water. Oven cleaner left on during the next firing can permanently stain the glass and damage the finish on plated metal surfaces.
- A portion of the combustion air entering the firebox is deflected down over the inside of the door glass.
- This air flow “washes” the glass, helping to keep smoke from adhering to its surface.
- When operated at a low burn rate, less air will be flowing over the glass and the smoky, relatively cool condition of a low fire will cause the glass to become coated.
- Operating the appliance with the Burn Rate Air Control and Start-Up Air Control all the way open for 15-20 minutes should remove the built up coating.

CAUTION! Handle glass assembly with care. Glass is breakable.

- *Avoid striking, scratching or slamming glass*
- *Avoid abrasive cleaners*
- *Do not clean glass while it is hot*

□□ Ins□e□t □re□r□□ □ Re□□□e□ ent Instr□□t□ons

- **Frequency:** After each ash removal
- **By:** Homeowner

Replace the firebrick if they become crumbly and/or if there is a 1/4 inch (6.35mm) gap between the bricks.

The firebox is lined with firebrick, which has exceptional insulating properties. Do not use a grate; simply build a fire on the firebox floor. Do not operate appliance without firebrick.

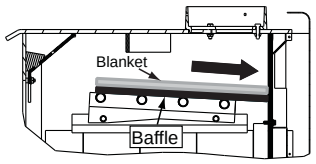
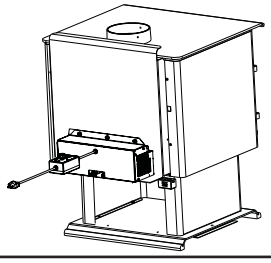
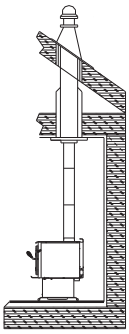
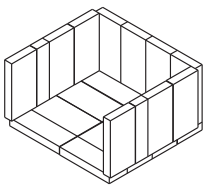
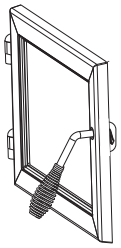
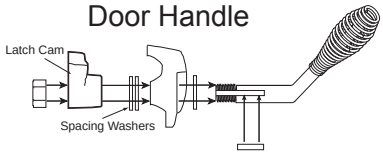
1. After the coals have completely cooled, remove all old brick and ash from unit and vacuum firebox.
2. Remove new brick set from box and lay out to the diagram shown in the instructions that come with the replacement brick set.
3. Lay bottom bricks in unit.
4. Install rear bricks on the top of the bottom bricks.
5. Install side bricks. Slide top of brick under clips on side of firebox and push the bottom of the brick until it is flush with the side of the unit.

□se Part 832-0550 when ordering individual brick. Provide brick dimension or copy the page in the service parts list, mark the desired brick and take it to your authorized dealer.

G□ □ □□□□ Re□eren□e □ □□nten□n□e G□□de

CAUTION! **A□o□ t□e □□□□□n□e to □o□ □ete□ □oo□ do□n □e□ore □er□or□ □n□ □n□ □e□n□n□ or □ □□nten□n□e□**

Start the first inspection after the first 2 months of use, or if performance changes, and adjust your schedule accordingly. Maintenance is required for safe operation and must be performed to maintain your warranty.

	Frequency	Task
Baffle & Blanket 	MONTHLY or After Every Cord of Wood	Baffle and blanket placement is critical to heat output, efficiency and overall life of the unit. Make sure the baffle is pushed all of the way to the back of the firebox and the blanket is laying flat. Inspect baffle for cracks.
Optional Blower 	YEARLY or After Every 4 Cords of Wood	□acuum the blower impellers.
Chimney System 	EVERY 2 MONTHS or After Every 4 Cords of Wood	The chimney and chimney cap must be inspected for soot and creosote every two months during the burn season or more frequency if chimney exceeds or is under 14-16 ft (4.3m-4.8m) measured from bottom of appliance. This will prevent pipe blockage, poor draft, and chimney fires. Always burn dry wood to help prevent cap blockage and creosote build-up.
Firebrick & Ash Removal 	WEEKLY or After Every 25 Loads of Wood	Ashes must be cool before you can dispose of the ashes in a non-combustible container. Firebrick is designed to protect your firebox. After ashes are removed, inspect the firebrick and replace firebricks that are crumbling, cracked or broken.
Door & Glass Assemblies 	WEEKLY or After Every 25 Loads of Wood	Keep door and glass gasket in good shape to maintain good burn times on a low burn setting. To test□place a dollar bill between the stove and door and then shut the door. If you can pull the dollar out, remove one washer from door handle behind latch cam and try again. If you can still pull it out, replace the door gasket. Check the glass frame for loose screws to prevent air leakage. Check glass for cracks.
Door Handle 	WEEKLY or After Every 25 Loads of Wood	Check the door latch for proper adjustment. This is very important especially after the door rope has formed to the stove face. Check door handle for smooth cam operation.

Note: These are generic drawings and may not represent your specific model.

4 □ro□□es□oot□n□ G□□de

With proper installation, operation, and maintenance your woodstove will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist you or a qualified service person in the diagnosis of a problem and the corrective action to be taken.

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Can not get fire started Excessive smoke or spillage Burns too slowly Not enough heat output	Not enough kindling/paper or no kindling/paper	Use dry kindling, more paper. Arrange kindling & wood for air movement.
	Not enough air for fire to ignite	Check for restricted termination cap
		Check for blockage of outside air kit (if installed).
		Check for flue blockage.
		Pre-warm flue before starting fire (refer to Building a Fire Section).
		Check for adequate vent height (refer to Chimney Height Section).
		Open window below the appliance towards the wind.
	Wood condition is too wet, too large	Use dry, seasoned wood (refer to Seasoned Wood Section).
	Bed of coals not established before adding wood	Start with paper & kindling to establish bed of coals (refer to Building a Fire Section).
	Flue blockage such as birds□ nests or leaves in termination cap	Have chimney inspected for creosote and cleaned by a certified chimney sweep.
	Down draft or negative pressure Competition with exhaust devices	Do not use exhaust fans during start-up (refer to Negative Pressure Section).
		Open window below the appliance towards the wind.
Fire burns too fast	Extremely dry or soft wood	Mix in hardwood.
		Mix in less seasoned wood after fire is established (refer to Wood Fuel Section).
	Overdrafting	Check for correct vent height; too much vertical height creates overdrafting.
		Check location of vent termination (refer to Chimney Termination Requirement Section).

5 □er□□e □□rts Re□□□□e□ ent

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(Replace with 5mm ceramic glass only)

1. Ensure that the fire is out and the appliance is cool to the touch.
2. Protect a table or counter top with padding or towels. Protect your hands and wear gloves to prevent injury.
3. Remove the door with the broken glass by lifting the door up and off of the hinges.
4. Lay door face down on a table or counter making sure the handle hangs over the edge so the door lays flat, on a soft surface.
5. Remove the screws from each glass retainer and remove the glass. (If screws are difficult to remove, soak with penetrating oil first).
6. Center the glass with edges evenly overlapping the opening in the door, (i.e. same space top and bottom, left and right sides).
7. Replace the glass retainers. Be careful not to cross thread the screws.
8. Tighten each retainer just a few turns until each is secured. Check again for centering of glass in door frame. Continue to tighten each retainer alternately, a few turns at a time, until the glass is secure. DO NOT O□ERTIGHTEN - can cause glass to break.
9. Replace the door on the appliance.

WARNING! Risk of Fire or Injury!
Use only glass that is specified in the manual, DO NOT replace with any other material. Glass breakage will occur.

CAUTION!

Handle glass with care.

- *Inspect the gasket to ensure it is undamaged.*
- *Do NOT strike, slam or scratch glass.*
- *Do NOT operate appliance with glass & door assembly removed.*
- *Do NOT operate with glass cracked, broken or scratched.*

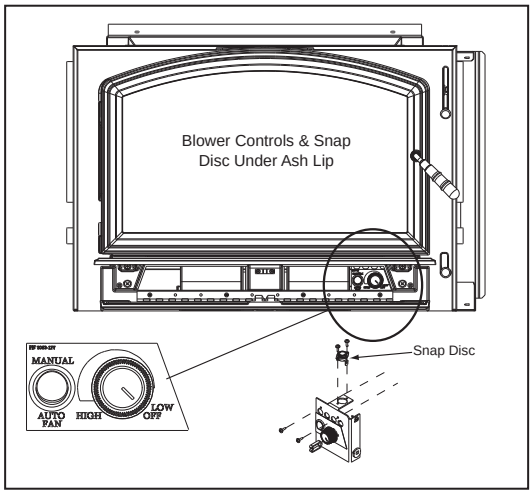
Quadra-Fire appliances are equipped with ceramic super heat-resistant glass, which can only be broken by impact or misuse.

□□ □n□□ D□s□ Re□□□□e□ ent

1. The grille on the blower access assembly is hinged. Swing the grille downward to expose the 2 screws. □□□re □□□ on □□□e □□□

□□ □n□□ D□s□ Re□□□□e□ ent □□ont□d□

2. Remove the 2 screws from the blower access assembly and slide assembly away from the appliance
3. Locate the snap disc bracket assembly behind the blower controls on the right side under the ash lip. □□□re □□□
4. Remove the 2 mounting screws in the blower control bracket and slide assembly towards you.
5. □sing a Phillips head screw driver, remove the 2 screws from the snap disc and lift the snap disc off of the mounting bracket. Disconect the wires and replace with new snap disc and re-connect the wires.
6. Slide the blower control bracket back into position and secure with the 2 mounting screws.



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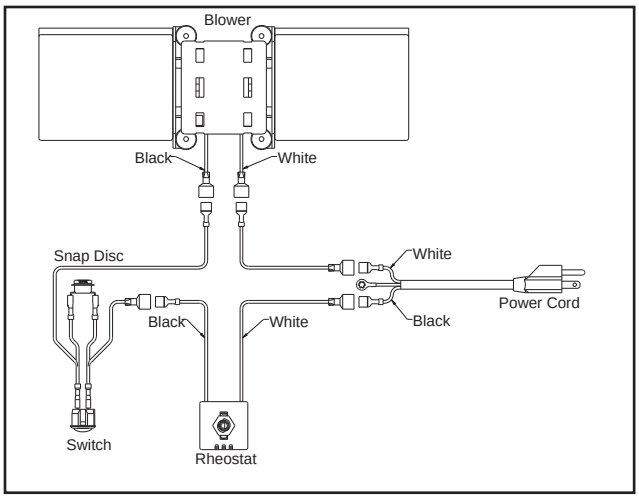


□□□re □□□

D□ □□o□er Re□□□e□ent

1. The grille on the blower access assembly is hinged. Swing the grille downward to expose the 2 screws. □□□re □□□□
2. Remove the 2 screws from the blower access assembly and slide assembly away from the appliance.
3. Disconnect the wires from the blower.
4. Remove the 2 screws from the hold down bracket and pull the blower and bracket forward.
5. Remove the blower from the hold down bracket.
6. Remove the protection guards from each end of the blower.
7. Re-install in reverse order. Be certain that the hold down bracket□s screws are completely seated in the grommets. Insert the locating tab in the hold down bracket into the placement slot.

□AU□ION

□□o□□R□s□

- Do NOT remove grounding prong from plug.
- Plug directly into properly grounded 3 prong receptacle.
- Route cord away from appliance.
- Do NOT route cord under or in front of appliance.

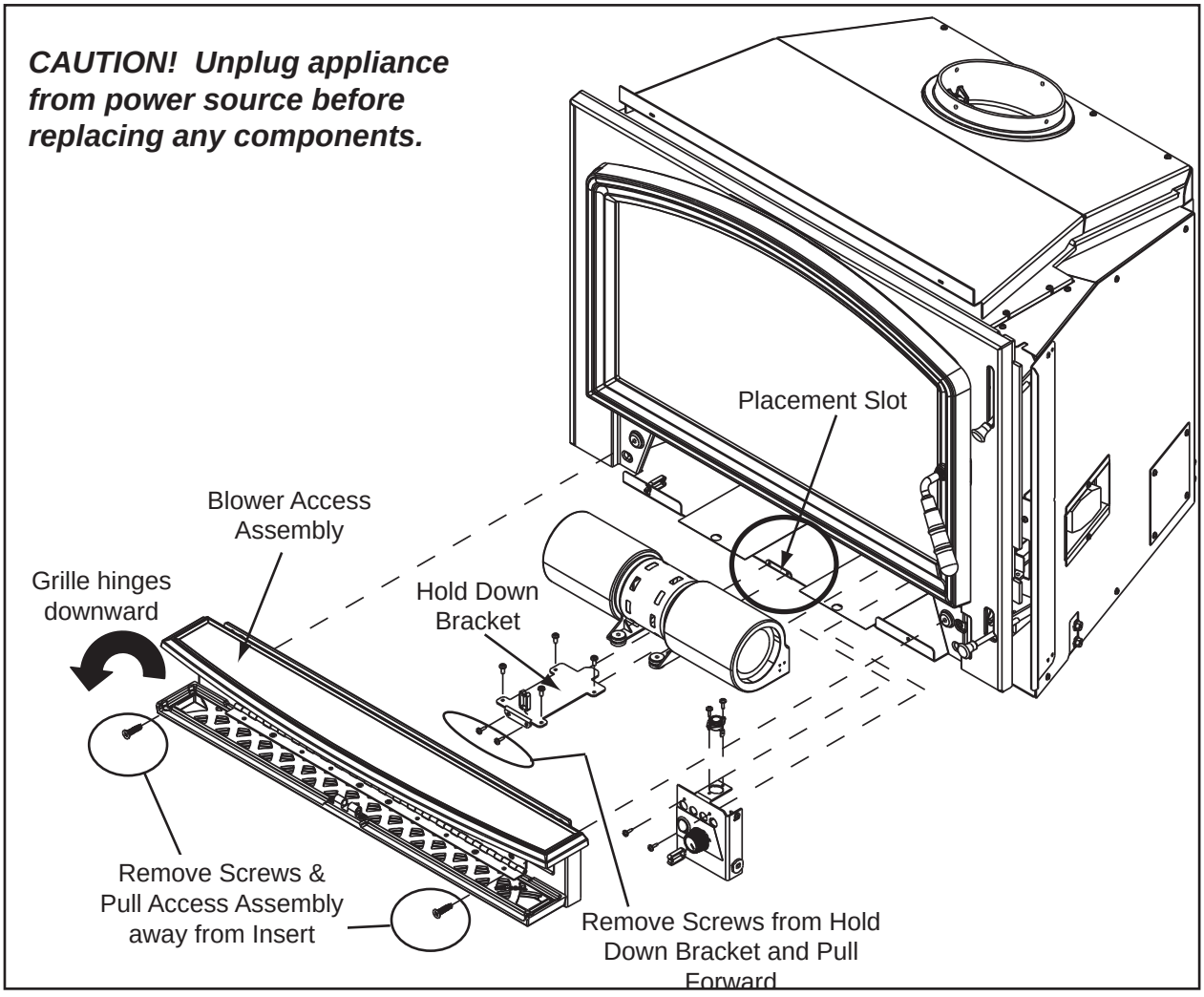
WARNING

□□re R□s□□

Do NOT allow hot coals or embers to overflow ash lip

- May melt protective wire coating on fan power cord causing electrical short, fire or injury

CAUTION! Unplug appliance from power source before replacing any components.


Placement Slot
Blower Access Assembly
Grille hinges downward
Hold Down Bracket
Remove Screws & Pull Access Assembly away from Insert
Remove Screws from Hold Down Bracket and Pull Forward

□□□re □□□□

E. Door Handle Assembly

1. Install washer on door handle shaft.
2. Slide door handle through door.
3. Install additional washer(s) as shown in figure.
4. Install key in groove.
5. Align groove in latch cam with key; slide latch cam over shaft
6. Install locknut but do not overtighten, the handle needs to move smoothly.
7. Install handle turning in a counter-clockwise motion to desired location on door handle rod. figure.

CAUTION! *Do not overtighten lock nut. The door handle needs to move smoothly.*

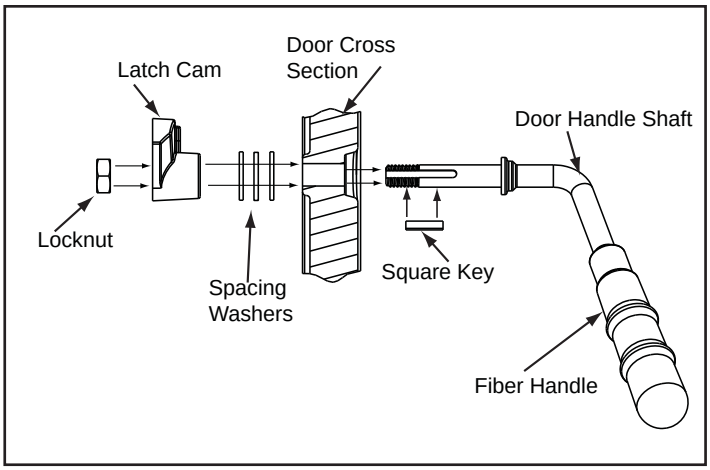


figure.

F. Baffle & Ceramic Blanket Removal

1. Remove all ash from the firebox, and extinguish all hot embers before disposal into a metal container.
2. It is easier to remove both baffle boards and ceramic blanket after the tube channel assembly has been partially disassembled and the right side lowered. Follow steps 1 through 4 on page for removal of the tube channel assembly. It is not necessary to completely remove the tube channel assembly.
3. Once the baffle protection cover has been removed, pull the baffle boards and ceramic blanket forward about 1 inch (25mm) and then overlap the baffles about 1-2 inches (25-51mm). figure.
4. Slide the tube channel assembly to the left as far as it will go and lower the right side. Remove the baffle boards and ceramic blanket together. figure.
4. Re-install in reverse order. Be sure the baffle boards and ceramic blanket are in their proper positions. See figure on page

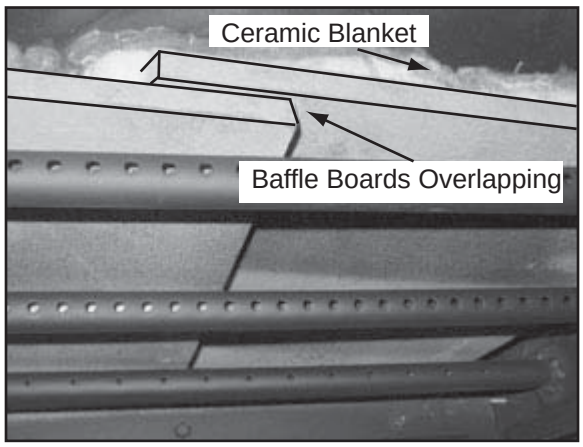


Figure 23.2

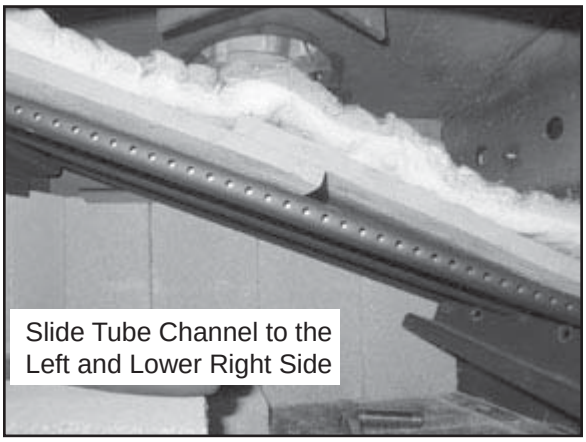


Figure 23.3

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Removing Tube Channel Assembly

1. Remove the 3 right side bricks.
2. Remove the baffle protection channel by bending back the tabs using needle nose pliers located at the right and left side of the protection cover. Lift the cover up slightly and pull toward the front and out of the firebox. **Figure 2□.□.**
3. Locate the 2 channel nuts and two bolts inside of chamber and remove using a 7/16 socket wrench. **Figure 2□.2.**

□□ □□: Soak the bolts with penetrating oil for at least 15 minutes before trying to remove them.

4. Slide the tube channel assembly all the way to left until it is off the threads. Drop the right side down, then slide the assembly back to right. **Figure 2□.3.**
5. The ceramic blanket and both baffle boards can be removed at the same time you remove the tube channel assembly.
6. When the tube channel assembly is free of the left side support, rotate clockwise and pull assembly, blanket and baffles out through the front opening.
7. Re-install in reverse order.

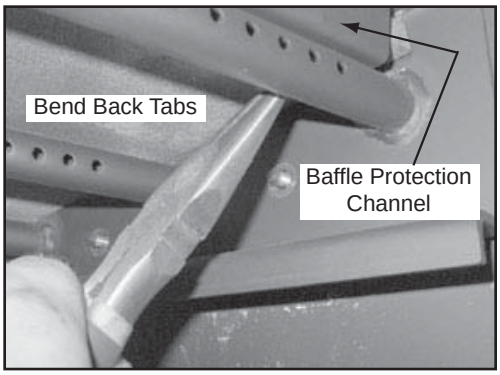

Figure 2□.□

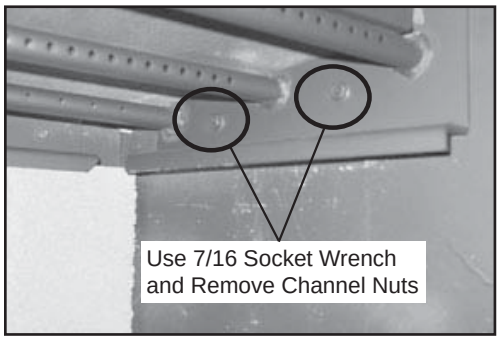

Figure 2□.2

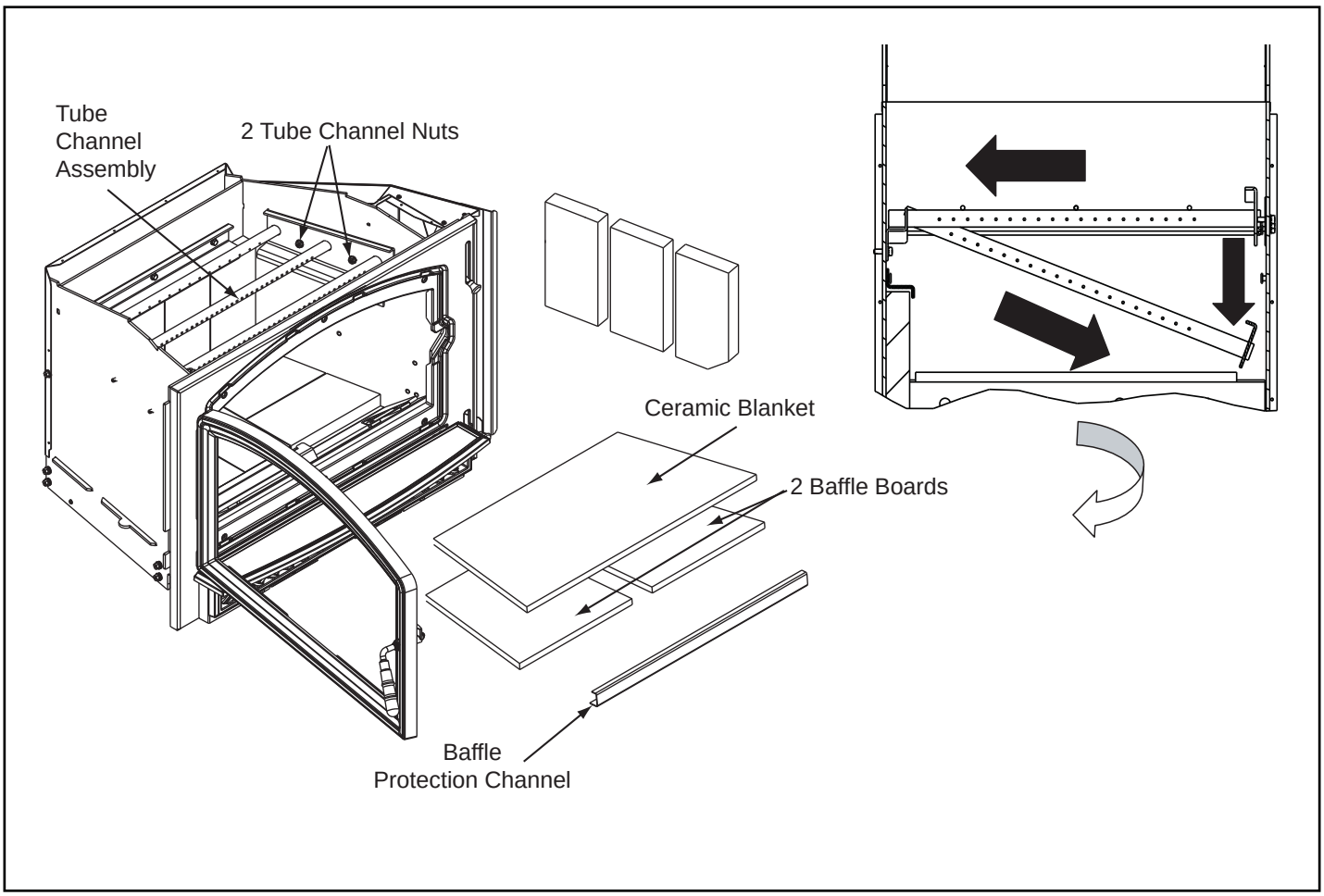

Figure 2□.3

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Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult insurance carrier, local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

□uadra-□ire wood inserts are designed for factory-built non-combustible fireplaces that have been installed in accordance with the □ational, Provincial, State and local building codes.

1. Prior to installing the wood insert:

- Have the chimney and adjacent structure inspected and cleaned by qualified professionals. Heart & Home Technologies recommends that NFI or CSIA certified professionals, or technicians under the direction of certified professionals, conduct a minmum of a NFPA 211 Level 2 inspection of the chimney.
- Replace component parts of the chimney and fireplace as specified by the professionals.
- Ensure all joints are properly engaged and the chimney is properly secured.

2. Prior to installing, determine the following:

- Type of chimney connector to be used
  □single wall, 6 inch (152mm) diameter, stainless steel, or
  □double wall, 6 inch (152mm) diameter, stainless steel
- Consult □□**ge□3**□ □□□ **32** for clearances to combustibles
- Power outlet located close by for optional blower

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- DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVICING ANOTHER APPLIANCE.
- DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.

May allow flue gases to enter the house.

□. □r□□□

Draft is the pressure difference needed to vent appliances successfully. When a appliance is drafting successfully, all combustion byproducts are e□iting the home through the chimney.

Considerations for successful draft include:

- Preventing negative pressure
- Location of appliance and chimney

□o be sure that your appliance burns properly:

- During a low burn, the chimney draft (static pressure) should be approximately -.04 inch water column (W.C.)
- During a high burn the chimney draft should be approximately -.10 inch (W.C.)
- Measure the W.C at 6 inches (152mm) above the top of the appliance after one hour of operation at each burn setting.

□□□□□□□□earth □ □ome □echnologies assumes no responsibility for the improper performance of the appliance system caused by:

- □nade□uate draft due to environmental conditions
- Downdrafts
- Tight sealing construction of the structure
- Mechanical exhausting devices
- Overdrafting caused by excessive chimney heights
- Ideal performance is with height of chimney between 14-16 feet (4.26-4.88m) measured from the base of the appliance.

□ □□□□□□□

Fire □i□□.

□earth □ □ome □echnologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home □echnologies.
- Installation and/or use of any component part not approved by □earth □ □ome □echnologies.
- Operating appliance without fully assembling all components.
- Operating appliance without legs attached (if supplied with unit).
- Do NOT Overfire - If appliance or chimney connector glows, you are overfiring.

Any such action that may cause a fire hazard.

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□□□□□□i□□i□□ □i□□.

- Negative pressure can cause spillage of combustion fumes, soot and carbon mono□ide.
- Appliance needs to draft properly for safety.

□egative pressure results from the imbalance of air available for the appliance to operate properly. □t can be strongest in lower levels of the house.

Causes include:

- Exhaust fans (kitchen, bath, etc.)
- Range hoods
- Combustion air requirements for furnaces, water heaters and other combustion appliances
- Clothes dryers
- Location of return-air vents to furnace or air conditioning
- Imbalances of the HVAC air handling system
- Upper level air leaks such as:
  - Recessed lighting
  - Attic hatch
  - Duct leaks

□o minimi□e the effects of negative air pressure:

- Install the outside air kit with the intake facing prevailing winds during the heating season
- Ensure adequate outdoor air for all combustion appliances and e□haust e□uipment
- Ensure furnace and air conditioning return vents are not located in the immediate vicinity of the appliance
- Avoid installing the appliance near doors, walkways or small isolated spaces
- Recessed lighting should be a “sealed can” design
- Attic hatches weather stripped or sealed
- Attic mounted duct work and air handler joints and seams taped or sealed
- Basement installations should be avoided

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Location of the appliance and chimney will affect performance. As shown in **Figure 2□.□** the chimney should:

- Install through the warm space enclosed by the building envelope. □his helps to produce more draft, especially during lighting and die down of the fire.
- Penetrate the highest part of the roof. This minimizes the affects of wind turbulence and down drafts.
- Consider the appliance location in order to avoid floor and ceiling attic joists and rafters.
- Locate termination cap away from trees, adjacent structures, uneven roof lines and other obstructions.

Your local dealer is the expert in your geographic area and can usually make suggestions or discover solutions that will easily correct your flue problem.

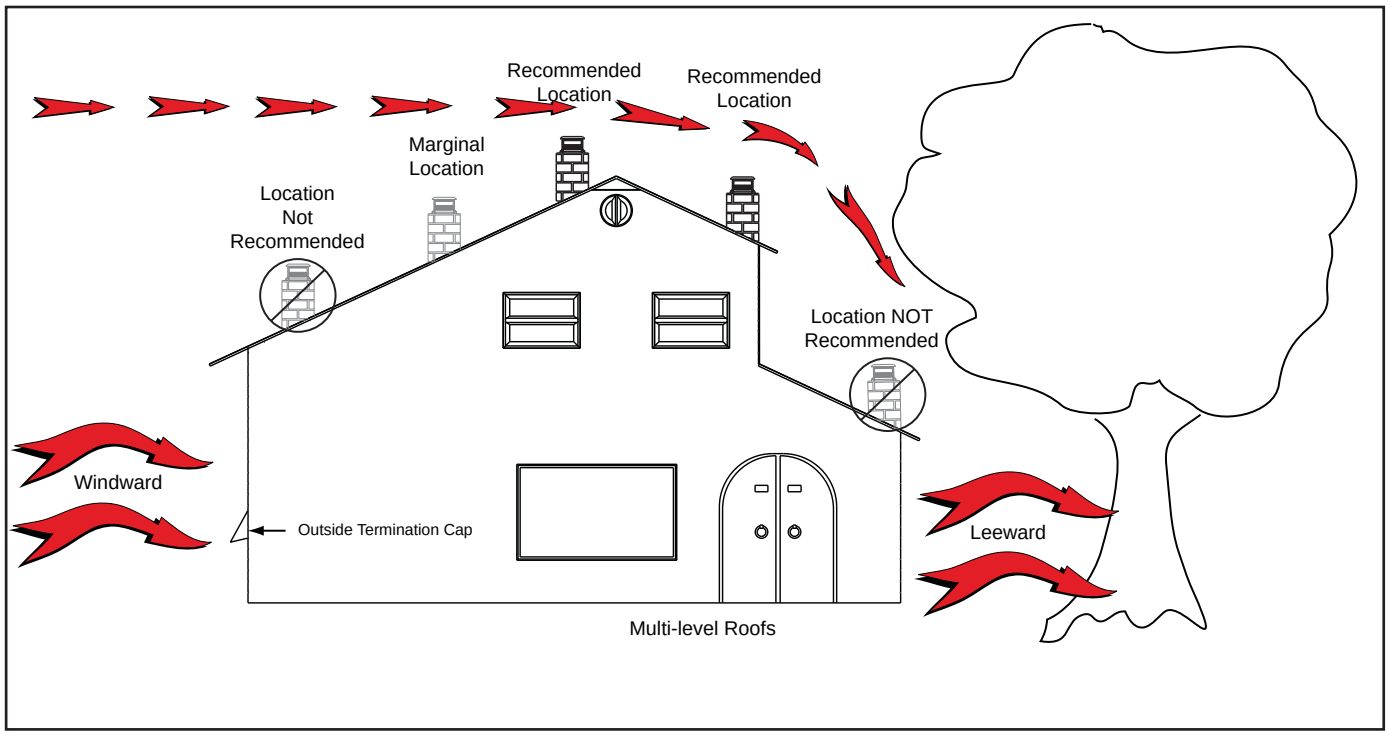

Figure 2□.□

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□ollow manufacturer□s instructions for clearance, securing flashing and terminating the chimney.

- Must have an approved and Listed cap
- Must not be located where it will become plugged by snow or other material
- Must terminate at least 3 feet (91cm) above the roof □□□ at least 2 feet (61cm) above any portion of the roof within 10 feet (305cm).
- Must be located away from trees or other structures

NOTICE□

- *Chimney performance may vary.*
- *Trees, buildings, roof lines and wind conditions affect performance.*
- *Chimney height may need adjustment if smoking or overdraft occurs.*

NOTICE: *Locating the appliance in a basement or in a location of considerable air movement can cause intermittent smoke spillage from appliance. Do not locate appliance near*

- *Frequently open doors*
- *Central heat outlets or returns*

F. 2□□□3 □u□e

These are safety requirements and are not meant to assure proper flue draft.

This appliance is made with a 6 inch (152mm) diameter chimney connector as the flue collar on the unit.

- Changing the diameter of the chimney can affect draft and cause poor performance.
- It is not recommended to use offsets and elbows at altitudes above 4000 feet above sea level and or when there are other factors that affect flue draft.

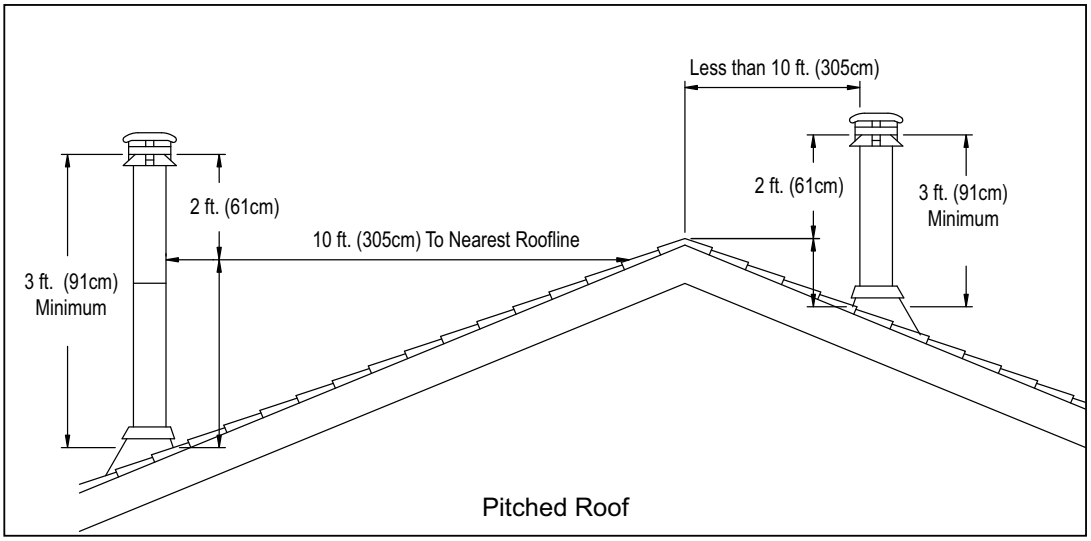

Figure 2□.□

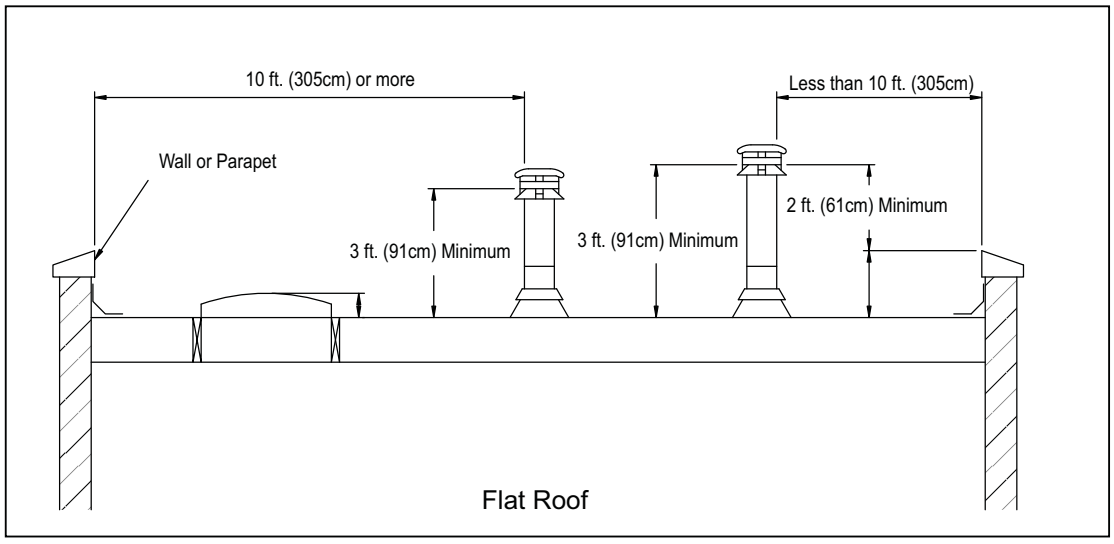

Figure 2□.2

□. □□□□□ □□□ □u□□ie□ □ee□e□

□efore beginning the installation be sure the following tools and building supplies are available:

7/16 Socket	□raming materia
Reciprocating saw	□igh temp caulking material l
Pliers	□loves
□ammer	□raming s□uare
Phillips screwdriver	□lectric drill and bits
□lat blade screwdriver	Safety glasses
Plumb line	□ape measure
Level	
Wire Cutters to remove from pallet	
1/2-3/4 in. length, □6 or □□ self-drilling screws	
Misc. screws and nails	

□. Fire □□e□

To provide reasonable fire safety, the following should be given serious consideration:

1. Install at least one smoke detector on each floor of your home to ensure your safety. □hey should be located away from the heating appliance and close to the sleeping areas. □ollow the smoke detector manufacturer□s placement and installation instructions, and be sure to maintain regularly.
2. A conveniently located Class A fire extinguisher to contend with small fires resulting from burning embers.

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- Remove appliance and components from packaging and inspect for damage.
- Vent system components and doors are shipped in separate packages.
- Report to your dealer any parts damaged in shipment.
- **Read all the instructions before starting the i□□□□□□i□□. F□□□□ □□e□e i□□ru□i□□□ □□re□u□□ □uri□g □□e i□□□□□□i□□ □□e□ure □ □□i□ u□ □□e□ □□□ benefit.**

□re□□ur□ □□e□□ □i□□

1.		Place the appliance in a location near the final installation area and follow the procedures below:
2.		□pen the appliance and remove all the parts and articles packed inside the Component Pack. □nspect all the parts and glass for shipping damage. Contact your dealer if any irregularities are noticed.
3.		All safety warnings have been read and followed.
4.		□his □wner□s Manual has been read.
5.		□loor protection re□uirements have been met.
6.		□enting is properly installed per vent manufacturing instructions.
7.		□he proper clearances from the appliance and chimney to combustible materials have been met.
□.		□he masonry chimney is inspected by a professional and is clean, or the factory built metal chimney is installed according to the manufacturer□s instructions and clearances.
□.		□he chimney meets the re□uired minimum height.
10.		All labels have been removed from the glass door.
11.		Plated surfaces have been wiped clean, if applicable.
12.		A power outlet is available nearby for use of the blower assembly.

□ □□□□□□□

Fire □i□□.

□nspect appliance and components for damage. Damaged parts may impair safe operation.

- Do NOT install damaged components.
- Do NOT install incomplete components.
- Do NOT install substitute components.

Report damaged parts to dealer.

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□. □□□□i□□□□e □i□ e□□i□□□ □□ □□□□ Fl□e □□□□□r □i□e i□ □i□□□ □□□2□ □ □□i□□ e□er □□□□

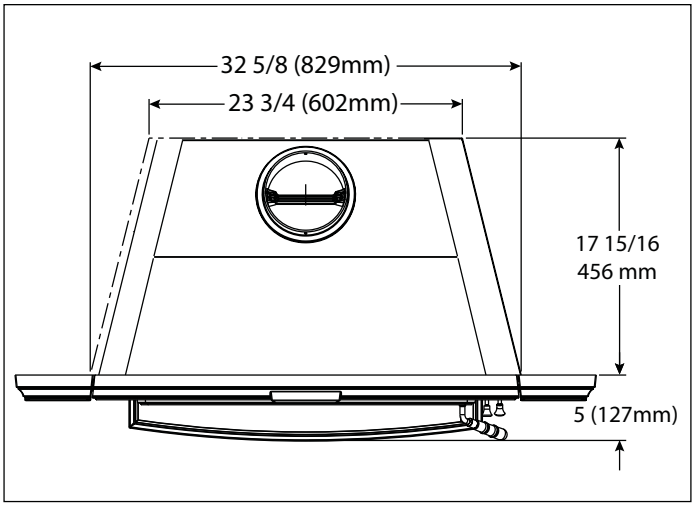


Figure 3□.□ □□□ □ie□

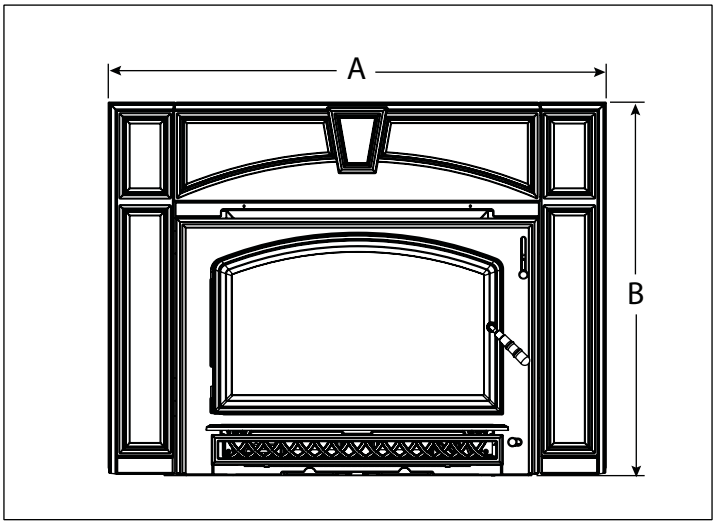


Figure 3□.2 Fr□□□□ie□ □i□□ □□□□□urr□u□□

□□er□□□□i□e□	□	□
Metal Surround w/Cast Trim-STD	42.5 in. (1080mm)	30 in. (762mm)
Metal Surround w/Cast Trim-LRG	48 in. (1219mm)	34 in. (864mm)
All Cast Surround	44 in. (1016mm)	33 in. (762mm)
Metal Surround w/Standard Trim-STD	43 in. (1092mm)	31 in. (787mm)
Metal Surround w/Standard Trim-LRG	51 in. (1295mm)	34 in. (2184mm)

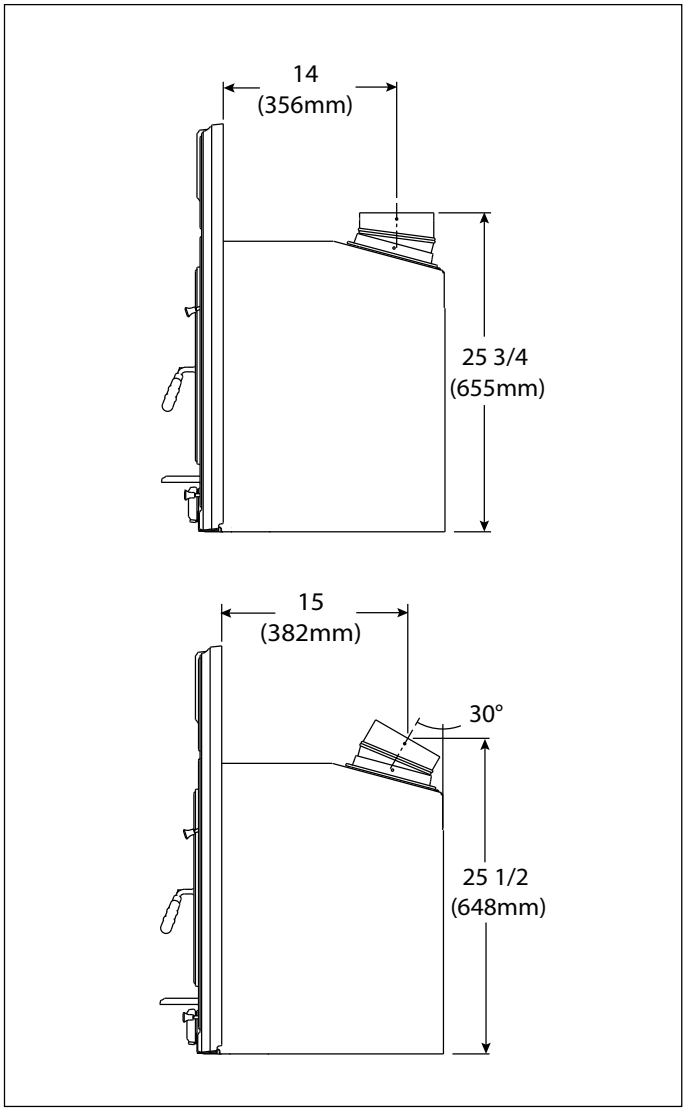


Figure 3□.3 □□i□e □ie□ □i□□ □ □□i□□□□Fl□e □□□□□er

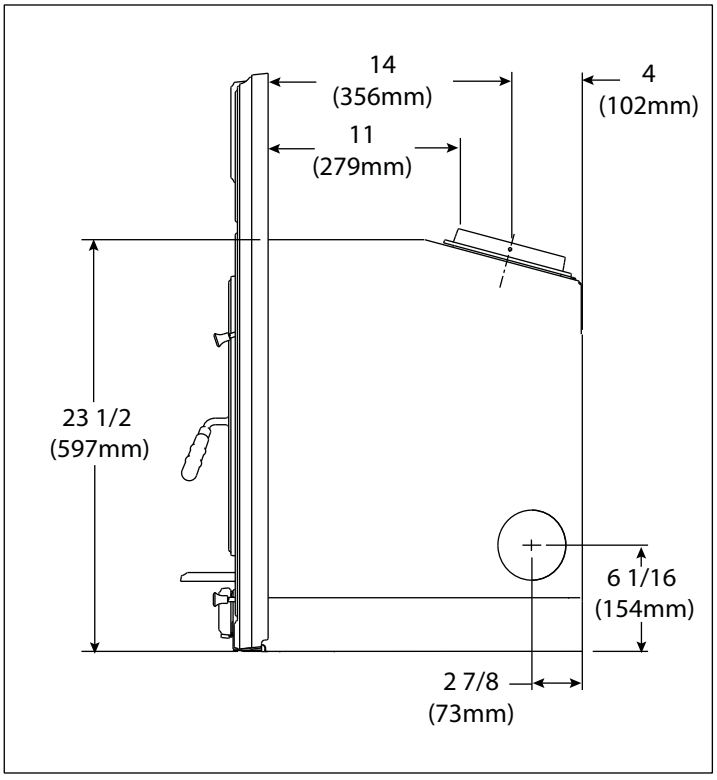
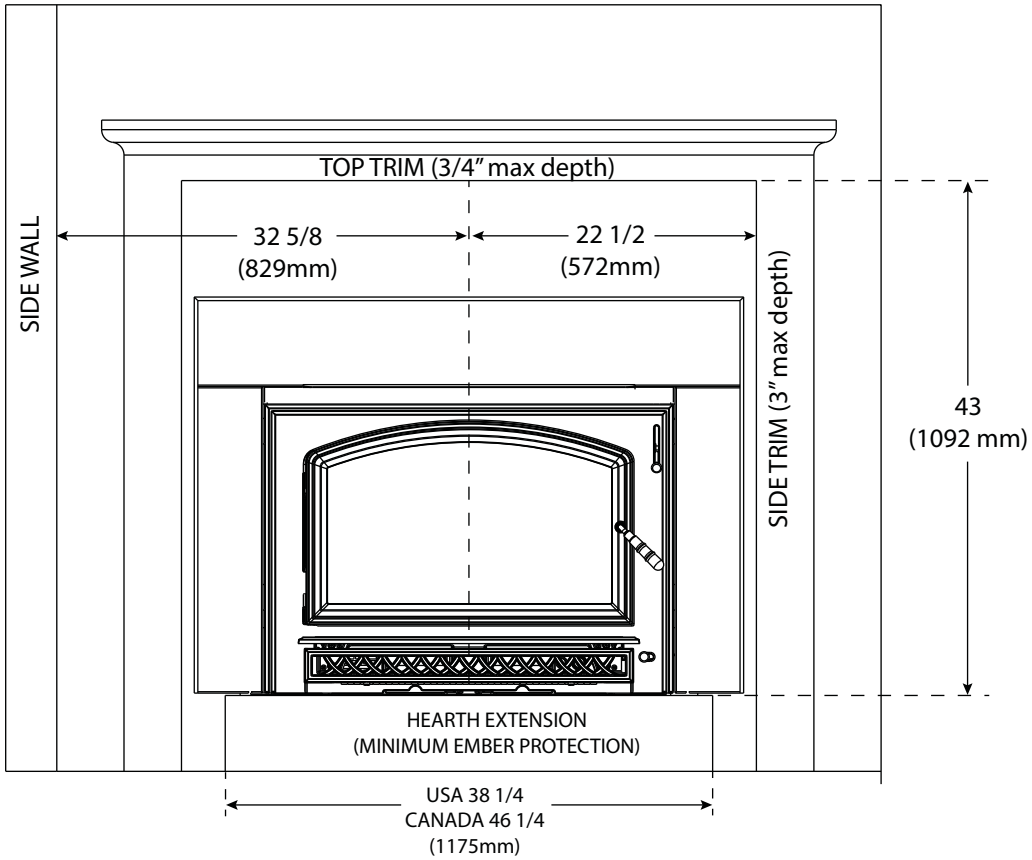
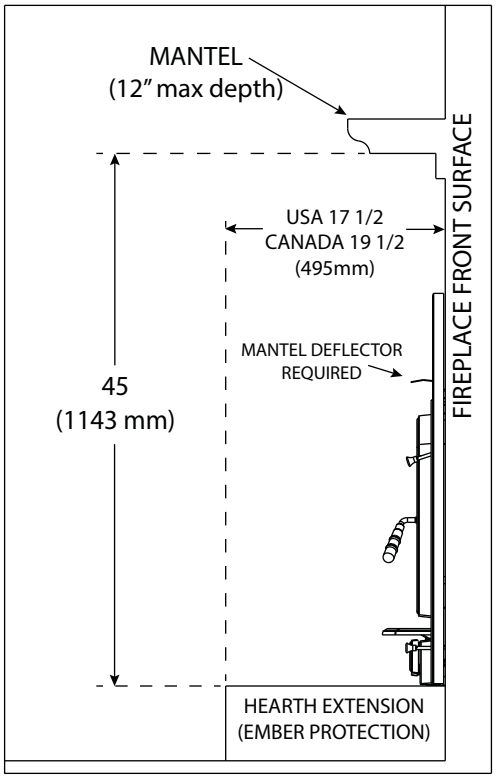


Figure 3□.□ □ □i□e □ie□ □ i□□□u□□ □□i□□□□Fl□e □□□□□er


TOP TRIM (3/4" max depth)
SIDE WALL
32 5/8
(829mm)
22 1/2
(572mm)
SIDE TRIM (3" max depth)
43
(1092 mm)
HEARTH EXTENSION
(MINIMUM EMBER PROTECTION)
USA 38 1/4
CANADA 46 1/4
(1175mm)


MANTEL
(12" max depth)
FIREPLACE FRONT SURFACE
USA 17 1/2
CANADA 19 1/2
(495mm)
MANTEL DEFLECTOR
REQUIRED
45
(1143 mm)
HEARTH EXTENSION
(EMBER PROTECTION)

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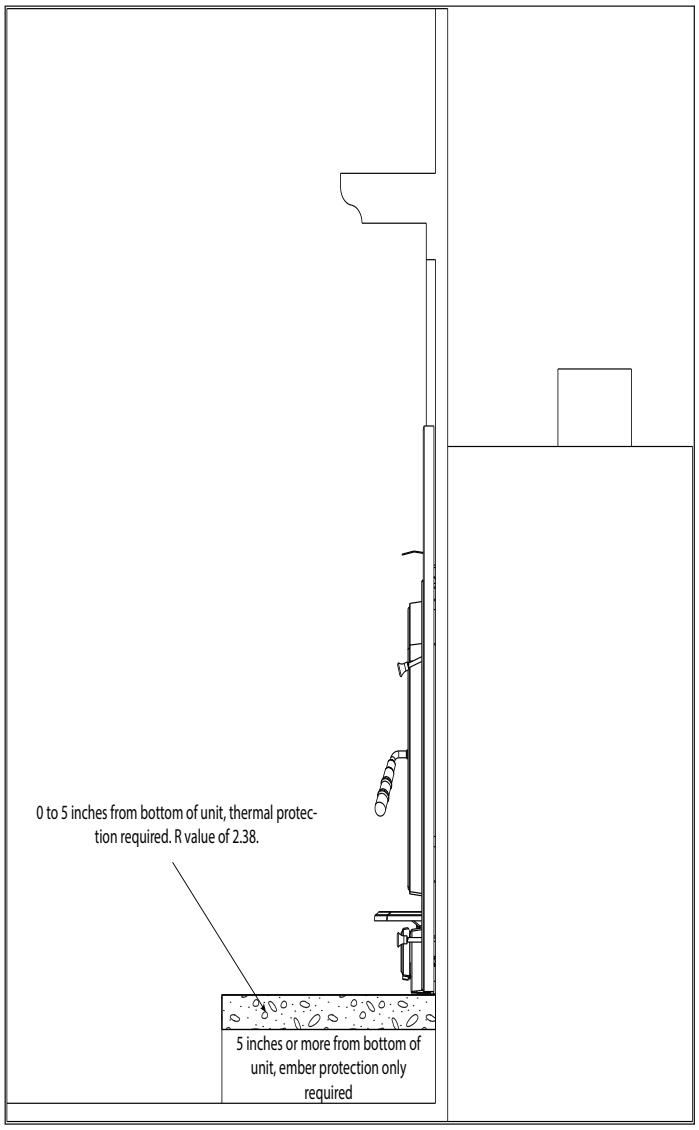
0 to 5 inches from bottom of unit, thermal protection required. R value of 2.38.
5 inches or more from bottom of unit, ember protection only required

Figure 32.□

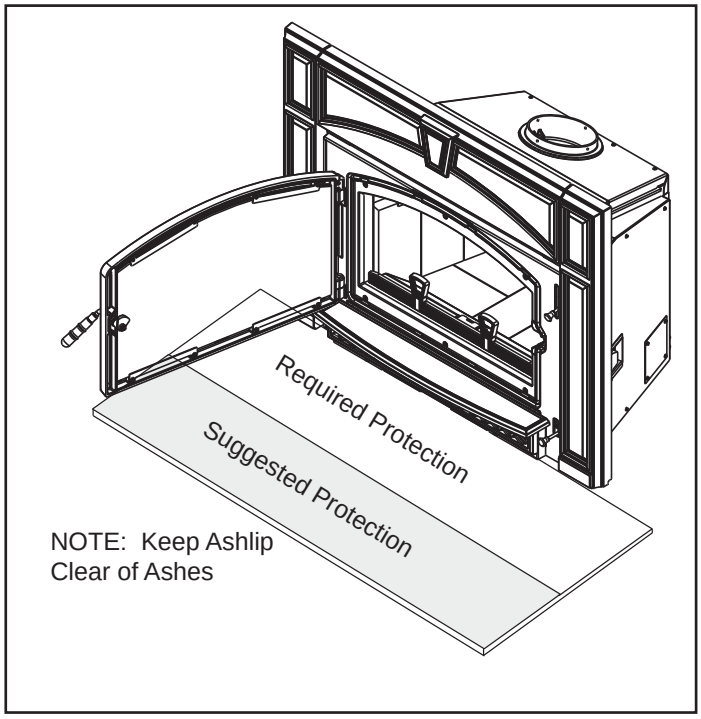

Figure 32.2

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□ □□□□□□

Fire □i□□.

- Comply with all minimum clearances to combustibles as specified.
- Failure to comply may cause house fire.

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□. □□□□u□□□i□g □□er□□□e F□□□r □r□□e□i□□

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□□er□ □□□□ □□□u□i□i□□□□ □□□ue

The k value indicates the amount of heat (in BTU's) that will flow in 1 hour through 1 square foot of a uniform material 1 inch thick for each degree (F) of temperature difference from one side of the material to the other.

□he L□W□R the k factor means less heat is being conducted through the non-combustible material to the combustible material beneath it.

□he k value of a material must be e□ual or smaller then the re□uired k value to be acceptable.

$$\frac{\text{(BTU) (inch)}}{\text{(foot}^2\text{) (hour) (}^{o}\text{F)}}$$

□□er□ □□□e□i□□□□e□□ □□□ue

□he R value is a measure of a material□s resisteance to heat transfer.

R value is convenient when more than one material is used since you can add the R values together, whereas you can not do this for k value.

□he □□□ □□R the R factor means less heat is being conducted through the non-combustible material to the combustible material beneath it.

□he R value of a material must be e□ual or larger then the re□uired R value to be acceptable.

□□□□er□□g □ □□ □□

Divide 1 by k and multiply the results times the thickness in inches of the material.

R □ 1/k □inches of thickness

□□□□er□□g □ □□ □□

Divide the inches of thickness by R.

k □ inches of thickness/R

□□□□u□□□□□□

□□ample: □loor protection re□uires k value of 0.□4 and 3/4 inch thick.

Alternative material has a k value of 0.6 and is 3/4 inch thick.

Divide 0.6 by .75 □ k value of 0.□0. □his k value is smaller than 0.□4 and therefore is acceptable.

□ □□i□ □e□ □□□□e□ □

□. □e□i□g □□□□e□ □

□□i□ □e□ □□□□e□□□r□

It is also known as flue pipe or stove pipe. It must be 6 inches (152mm) minimum diameter stainless steel connector pipe.

□□i□ □e□:

□he chimney can be new or e□isting, masonry or prefabricated and must meet the following minimum requirements as specified below.

WARNING! Risk of Fire!

Follow venting manufacturer's clearances and instructions when installing venting system.

□. □□□□e□i□□□

□□sting chimneys should be inspected and cleaned by a qualified professional prior to installation. The chimney must not have cracks, loose mortar or other signs of deterioration and blockage. □earth □ □ome recommends a NFI or CSIA certified professional or a technician, under the direction of a certified professional, conduct a Level II inspection per NFPA 211.

⚠ □ □□□□□□□

□ire Risk

□nspection of Chimney:

- Chimney must be in good condition.
- Meets minimum standard of NFPA 211
- Factory-built chimney must be 6 inch (152mm) UL103 HT.

□. □□rger □□i□ □e□□

□earth □ □ome recommends that chimneys with larger diameters than 6 inches (152mm) be fully relined. An oversized flue can affect draft and impair performance and will allow increased build-up of creosote which is why a full reline is stongly recommended.

NOTICE: Check with your local building authorities and/or consult the National Fire Protection Association (NFPA 211).

□. □ □□□□r□ □□i□ □e□

- Must meet minimum standards of NFPA 211.
- Must have at least 5/8 inch (16mm) fireclay lining joined with refractory cement.

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- □he masonry wall of the chimney, if brick or modular block, must be a minimum of 4 inches (102mm) nominal thickness.
- A chimney of rubble stone must be at least 12 inches (305mm) thick.
- Cross-sectional area shall conform to NFPA 211-2006 Section 12.4.5.1.
- Should be lined with a 6 inch (152mm) stainless steel flue liner to improve performance and reduce creosote build-up and difficulty starting a fire.
- An equivalent liner must be a listed chimney liner system or other approved material.
- No dilution air is allowed to enter the chimney.
  1. Secure the fireplace damper in the open position. If this cannot be accomplished, it will be necessary to remove the damper
  2. Seal damper area of chimney around chimney connector with a high temperature sealant or seal insert against the face of the fireplace.
  3. □oth methods must be removable and replaceable for cleaning and re-installation.
- When possible, install an airtight clean-out door to the rear of the smoke shelf.

□□□□□Masonry chimneys are significantly less than ideal for venting solid fuel appliances. A masonry chimney is not subject to any temperature limit test, therefore a full reline is strongly recommended.

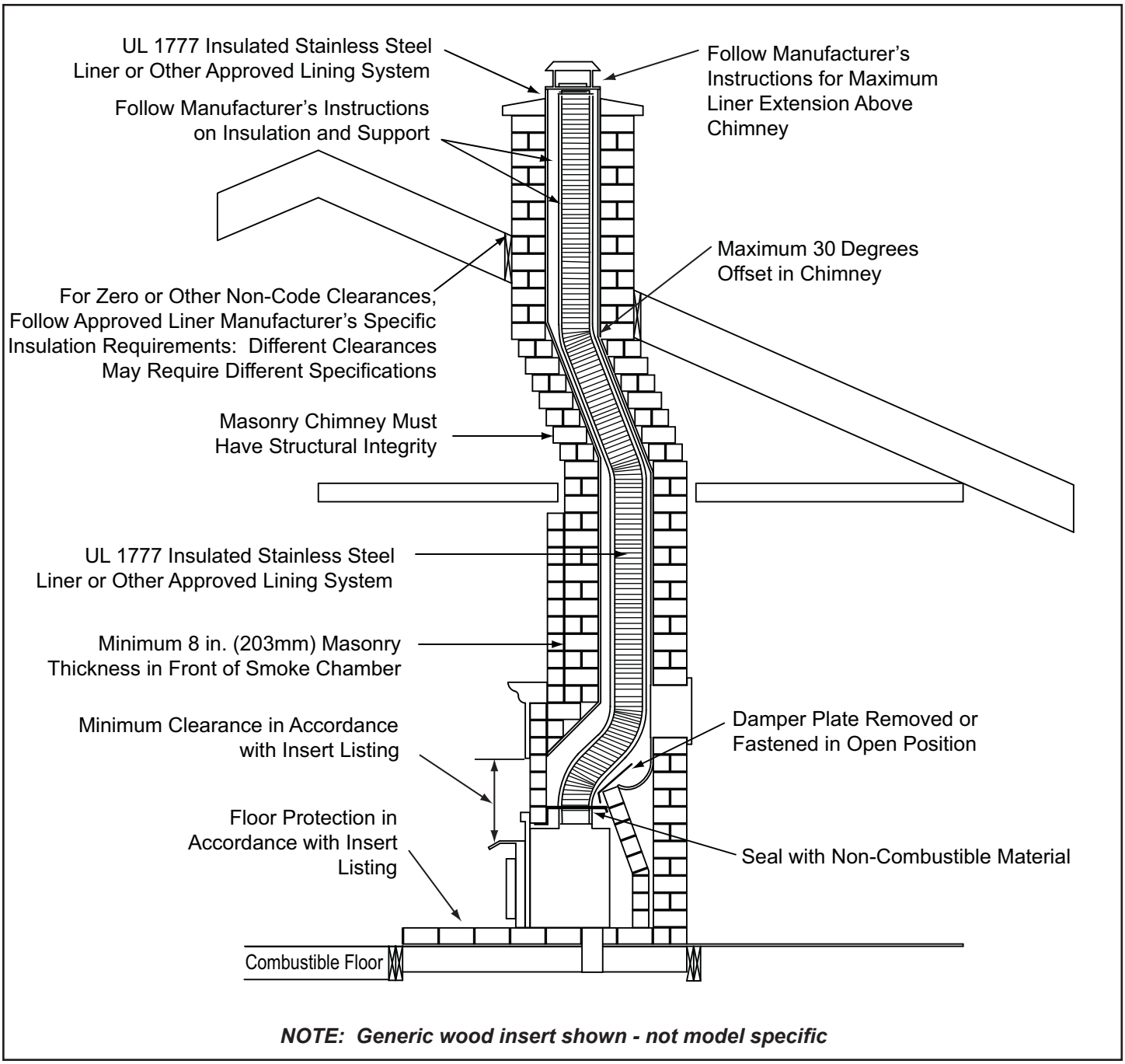
□ □□□□r□ □□i□ □e□ □□□□□□□□

□his insert conforms with the □L 14□2 and □LC S62□ (Canada) in all respects, and is approved to UL & ULC safety standards for installation and use within a fireplace with a masonry chimney in accordance with NFPA 211 and CAN/CSA-B365-01.

In USA a minimum 5 foot length, 6 inch diameter flue □i□er i□ re□uire□ □□ □er □□ □□□2□ □□□e□er □e□r□□ □ □□□e □e□□□□□□gie□ *strongly* re□□□ □ e□□□ □ □u□□reiπe □r □□i□ u□ □er□□r□ □□□e.

□□□□□ In Canada, this fireplace insert must be installed with a continuous chimney liner of a 6 inch (152mm) diameter extending from the fireplace insert to the the top of the chimney.

□he chimney liner must conform to the Class 3 re□uirements of CAN/ULC-S635, Standard for Lining Systems for □□sting Masonry or □actory-□uilt Chimneys and □ents, or CAN/ULC-S640, Standard for Lining Systems for New Masonry Chimneys.


UL 1777 Insulated Stainless Steel Liner or Other Approved Lining System
Follow Manufacturer's Instructions on Insulation and Support
Follow Manufacturer's Instructions for Maximum Liner Extension Above Chimney
Maximum 30 Degrees Offset in Chimney
For Zero or Other Non-Code Clearances, Follow Approved Liner Manufacturer's Specific Insulation Requirements: Different Clearances May Require Different Specifications
Masonry Chimney Must Have Structural Integrity
UL 1777 Insulated Stainless Steel Liner or Other Approved Lining System
Minimum 8 in. (203mm) Masonry Thickness in Front of Smoke Chamber
Minimum Clearance in Accordance with Insert Listing
Damper Plate Removed or Fastened in Open Position
Floor Protection in Accordance with Insert Listing
Seal with Non-Combustible Material
Combustible Floor

NOTE: Generic wood insert shown - not model specific

Figure 3□.□ □□ □□□□r□ □□i□ □e□ □i□□ □ Fu□□□i□er □i□□□□e □□□□3□□ □□uire□ e□□□er □□□□□□

□. □e□□□□e□□□ir□u□□i□g □ □□□□r□

□his insert conforms with the safety standard □L-14□2 and ULC S628 (Canada) in all respects and is approved to UL & ULC safety standards for installation and use within a fireplace with masonry chimney, in accordance with NFPA 211, and CAN/CSA-B365-01.

F. □re□□ri□□□e□ □e□□□□ □i□ □e□

□he chimney can be new or e□isting, masonry or prefabricated and must meet the following minimum re□uirements:

- Must be minimum 6 inch (152mm) inside diameter of high temperature chimney listed to UL 103 HT (2100°F) or □LC S62□.
- Must use components required by the manufacturer for installation.
- Must maintain clearances required by the manufacturer for installation.
- Refer to manufacturers instructions for installation
- This insert is listed to UL 1482 Standard and is approved for installation into listed factory-built solid fuel fireplaces listed to UL 127 conforming to the following specifications and instructions:
- The original factory-built clearance fireplace chimney cap must be re-installed after installing the approved chimney liner meeting type □L 103 □□ re□uirements (2100°F) per UL 1777.
- The liner must be securely attached to the insert flue collar and the chimney top.
- The air flow of the factory-built solid fuel fireplace system must not be altered. The flue liner top support attachment must not reduce the air flow for the existing air-cooled chimney system.
- No dilution air is allowed to enter the chimney.

1. Secure the fireplace damper in the open position. □f this cannot be accomplished, it will be necessary to remove the damper.
2. Seal damper area of chimney around chimney connector with a high temperature sealant or seal insert against the face of the fireplace.
3. □oth methods must be removable and replaceable for cleaning and re-installation.

	Inches	*Millimeters*
Minimum Width of Cavity Opening - Front	32-7/□□	□35
Minimum Width of Cavity Opening - Rear	24□	610
Minimum Height	24□	610
Minimum Depth from Front to Rear	1□□	457

**You will need to add additional clearances to these dimensions for your specific installation. Also allow sufficient clearance if you are installing an outside air kit.*

□□ □□□ □e□er □□ □□i□ □e□ i□er □ □□u□□□□urer □□r re□□□ □ □e□□□i□□□ □□ □u□□□r□i□g □□e i□er. □□□□□□□□□i□□ i□□□ **fireplaces without a permit will void the listing.**

NOTICE: □n Canada when using a factory-built chimney it must be safety listed, □□□e □□□□3 □□ □2□□□°F□□□□□□°□□□□□□□ □□□or conforming to □□□□□□□□□□2□□ □□□□□□□□□□ F□□ □□□°□ F□□□□□□□□□□□□□ □□□□ □□□□.

⚠ WARNING

□ire Risk.

When lining air-cooled factory-built chimneys:.

- Run chimney liner approved to UL 1777 Type HT requirements (2100 degrees F)
- Re-install original factory built chimney cap ONLY
- DO NOT block cooling air openings in chimney
- Blocking cooling air will overheat the chimney

To maintain the functionality of the fireplace's chimney system you may use a Simpson Dura-□ent DuraLiner Slip □anger, Part □ 4671, and attach to the bottom of the fireplace chimney cap to support the liner. You have two options to completing the installation.

□□i□□ □□e □□□□re□uire□ □□ u□e i□er □□□:
Re-attach the e□isting top of the chimney cap.

□□i□□ □□ □□□i□g i□er □□□□
Re-attach the e□isting top of the chimney cap and install a new storm collar and a new liner cap.

WARNING! Risk of Fire!

Follow venting manufacturer's clearances and instructions when installing venting system.

C. Securing Liner to Insert Collar

All joints should be secured with 3 sheet metal screws or rivets per pipe manufacturers instructions. The sections must be attached to the insert and to each other with the crimped (male) end pointing toward the insert. **Figure 3C.1**

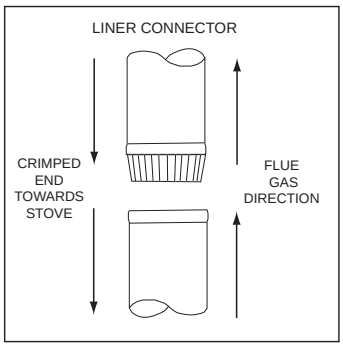


Figure 3C.1

D. Framing the Fireplace

The following modifications of factory-built fireplaces are permissible:

The following parts may be removed:

Damper	Smoke Shelf or Baffle
Ember Catches	Fire Grate
Viewing Screen/Curtain	Doors

- The fireplace must not be altered, except that the damper may be removed to accommodate a direct-connect starter pipe or chimney liner,
- External trim pieces which do not affect the operation of the fireplace may be removed providing they can be stored on or within the fireplace for reassembly if the insert is removed.
- The permanent metal warning label provided in the component pack must be attached to the back of the fireplace, with screws or nails, stating that the fireplace may have been altered to accommodate the insert, and must be returned to original condition for use as a conventional fireplace. **Figure 3C.2**.
- Manufacturer designed adjustable support kit can be ordered from your dealer.
- Final approval of this installation type is contingent upon the authority having jurisdiction.

WARNING

THIS FIREPLACE MAY HAVE BEEN ALTERED TO ACCOMMODATE AN INSERT. IT MUST BE RETURNED TO ITS ORIGINAL CONDITION BEFORE USE AS A SOLID FUEL BURNING FIREPLACE.

250-2061

Figure 3C.2

E. Factory-built Fireplaces

A permit may be required for installations, final approval is contingent of the authority having local jurisdiction. Consult insurance carrier, local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

Inspect the existing fireplace and chimney for any damage or flaws such as burnouts, metal or refectory warping.

Inspection to a minimum of NFPA 211 Level II is recommended. All repairs must be made prior to installing an insert. The fireplace must be structurally sound and be able to support the weight of the solid-fuel insert

The factory-built chimney must be listed per UL 127 or ULC 610-M07 for all installations. Install thermal protection per this appliance listing requirements.

Guidelines for connecting liners to factory-built fireplaces are provided in NFPA 211 Section 7.2.2.2 Requirements for Factory-built Fireplaces. The liner must be attached to the insert flue collar and to the top of the existing chimney.

The flue liner top support attachment must not reduce the air flow for the existing air-cooled chimney system. Reinstall original factory-built chimney cap if removed. (See Section F., Prefabricated Metal Chimney)

To prevent room air passage to the chimney cavity of the fireplace, seal either the damper area around the chimney liner or the insert surround. Circulating air chamber (i.e. in a steel fireplace liner or metal hearth circulator) may not be blocked. The air flow within and around the fireplace shall not be altered, blocked by the installation of the insert. (i.e. no louvers or cooling air inlet or outlet ports may be blocked by the insert or the insert surround.

See “H. Altering the Fireplace” for modifications allowed for factory-built fireplaces.

WARNING! Risk of Asphyxiation!

- *DO NOT CONNECT THIS APPLIANCE TO A CHIMNEY FLUE SERVICING ANOTHER APPLIANCE OR TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.*

This may allow flue gases to enter the house.

□. □□□i□i□g □□u□□ □□i□e□□ □ee□i□er□

□vali□ing round stainless steel liners to accommodate the liner passing through the damper region of a fireplace is an allowable and acceptable practice.

□nsure that the ovali□ation is minimi□ed to the e□tent required to fit through the damper.

□. □□i□ □e□ □eig□□□□i□e □□□ □u□

□o be sure that your □uadra-□ire insert burns properly, the chimney draft (static pressure) should be approximately -0.10 inches water column (W.C.) during a high burn and -0.04 inches W.C. during a low burn, measured 6 inches (152mm) above the top of the insert after one hour of operation at each burn setting.

□□□□: □hese are guidelines only, and may vary somewhat for individual installations.

- □his product was designed for and tested on a 6 inch (152mm) chimney, 14 to 16 feet (4.27-4.87m) high, (includes appliance height) measured from the base of the appliance.
- □he further your stack height or diameter varies from this configuration, the possibility of performance problems exists.
- Chimney height may need to be increased by 2 - 3□ per each 1000 feet (304.8m) above sea level.
- □t is not recommended to use offsets or elbows at altitudes above 4000 feet (1219.2m) above sea level or when there are other factors that affect flue draft.

⚠ □ □□□□□□

□ire Risk.

Do □□□ pack insulation or other combustibles between spacers.

- ALWAYS maintain specified clearances around venting and spacers.
- Install spacers as specified.

□ailure to keep insulation or other material away from vent pipe may cause fire.

⚠ □ □□□□□□

□ire Risk.

□his appliance relies upon natural draft to operate properly.

- Chimney heights exceeding 25 feet (7.62m) from base of appliance may create an over-draft situation.
- Overdraft condition may create over-firing.

Over-firing may ignite creosote and/or damage appliance and chimney.

⚠ □ □□□□□□

□ire Risk.

□ailure to install a full reline may cause:

- Creosote accumulation creating increased risk of chimney fire.
- Lose protection to combustible surfaces from the liner in case of fire.
- Poor performance and start-ups.
- Less access to chimney for required maintenance.

□ □□□i□□□e □e□u□

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□. □u□□i□e □ir □i□□□□□□□□□□i□□

A source of air (oxygen) is necessary in order for combustion to take place. Whatever combustion air is consumed by the fire must be replaced. Air is replaced via air leakage around windows and under doors. □n homes that have tightly sealed doors and windows, an outside air source is needed. An optional Outside Air Kit is available.

□e□ □ □ee□e□ □□r □□□□□□□□□i□□ □□□□□u□□ie□□

- 4 inch flex aluminum pipe, or if using alternate material, then it shall be made from durable, non-combustible, heat resistant material up to 350°□. Cut the pipe to the re□uired length for your installation.
- Phillips head screw driver
- Silicone sealant

□□i□□ □ □e □□u□□i□e □ir □□□□□□□□□i□□ □□□ru□i□□□

1. Swing grille down to e□pose the two screws. **Figure 3□.□**
2. Remove the two screws and pull the access assembly away from the appliance.
3. Assemble the outside air cover plate A supplied in component pack.
4. Re-install the access assembly.
5. Remove the outside air cover plate □ on outer can and discard. **Figure 3□.2.**
6. Install optional flex adapter to outer can with the same screws. Do not use plastic wire ties that come with the kit as they will melt. NOTE: You may need to install the flex pipe into the firebox first depending on installation. Attach flex to adapater with at least 2 screws.
7. Ensure existing access hole in fireplace is sufficient to feed the 4 inch flex.
8. After sliding can into fireplace, feed flex into cut opening to obtain outside combustion air.
9. □. Level outer can and install appliance. See □□**ge □□.**

□□i□□ □□□ □□u□□i□e □ir □□□□□□□□□i□□ □□□ru□i□□□

1. □ollow steps 1-5 in □ption □ne above
2. Ensure existing acces hole in fireplace will not be covered by the outer can. □□isting outside air intake hole may be under at the rear or side of outer can. □utside air may also enter down e□isting chimney chase in some situations.
3. Repeat step 9 under Option One with one exception. After installing the appliance in the outer can, seal the fireplace opening and trim package with insulation to prevent air leakage into the room.

□ □□□□□□□

Fire □i□□.

□□□□□□i□□i□□ □i□□.

Do not draw outside combustion air from:

- Wall, floor or ceiling cavity
- Enclosed space such as an attic or garage
- Close proximity to exhaust vents or chimneys

□umes or odor may result

□ □□□□□□□

□□□□□□i□□i□□ □i□□.

□utside air inlet must be located to prevent blockage from:

- Leaves, snow, ice or other debris

□lock may cause combustion air starvation

Smoke spillage may set off alarms or irritate sensitive individuals.

□ □□□□□□□

□□□□□□i□□i□□ □i□□.

Length of outside air supply duct shall □□□ e□ceed the length of the vertical height of the exhaust flue.

- □ire will not burn properly
- Smoke spillage occurs when door is opened due to air starvation.

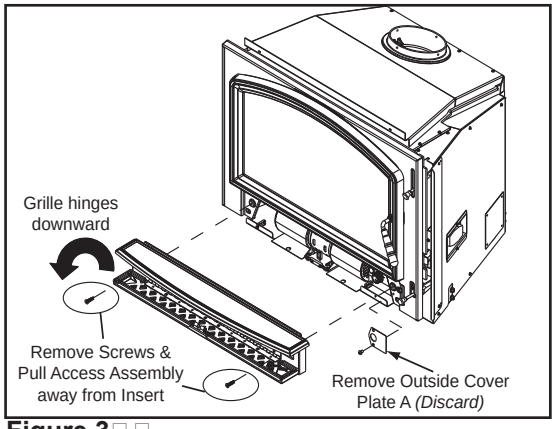

Figure 3□.□

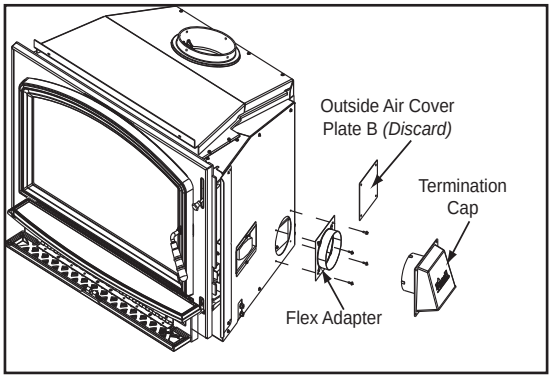

Figure 3□.2

□. □□i□□□□□□□□□□ Flue □□□□□er □□□□□□□□□□i□□

Optional use of a Simpson Duravent 15° Universal Elbow Part □umber 4615 may be purchased directly through your local Simpson Durvent Pipe Distributor or from your local Quadra-Fire dealer, Part Number DV-6DLR-E15ADSS.

Figure □□.□ shows a vertical installation and also how to create an optional 30° elbow installation.

The 15° elbow may be secured directly to the flue collar. □ollow the pipe manufacturer□s instructions for using screws or rivets for attachment. Most pipe manufacturer□s 6 inch (152mm) diameter flue liners may be attached directly to the top of the 15° elbow.

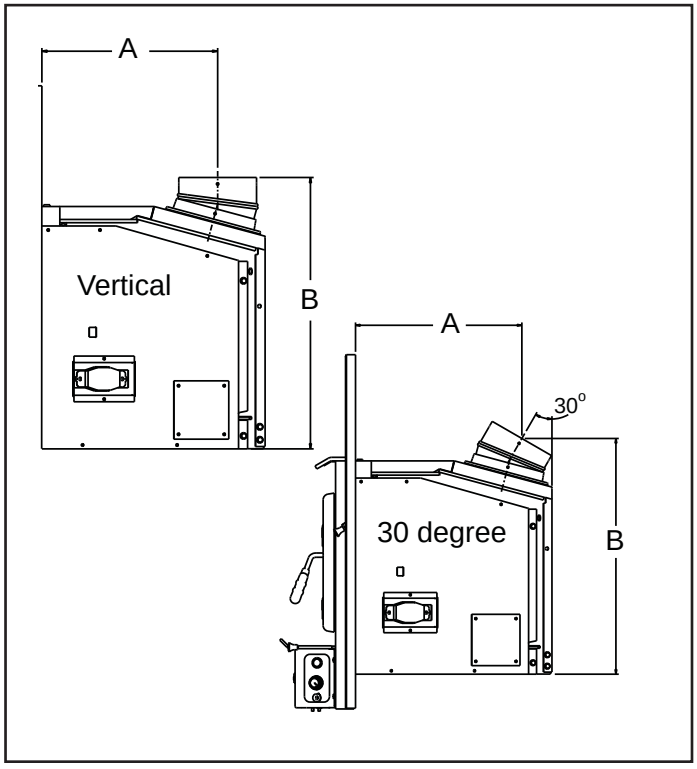

Figure □□.□

Flue □□□□□er	□	□
□ertical	14 in. (344mm)	25 3/4 in. (532mm)
30 Degree	15 in. (371mm)	25 1/2 in. (525mm)

□. □e□uri□g □□□□e □i□e□i□er □□ Flue □□□□r

1. There are 4 pre-drilled holes in the flue collar 90 degrees apart. Attach the flue collar to the stove pipe/liner. If the seal is □uestionable use stove mastic **Figure □□.2.**
2. Attach gasket to bottom side of flue collar with a thin coat of silicone.

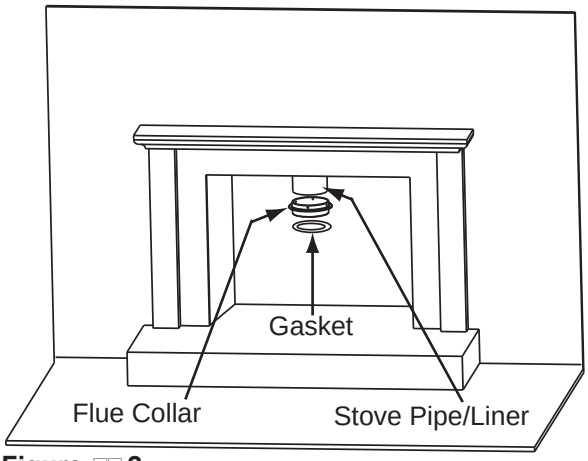

Figure □□.2

□. □e□e□i□g □eg□

1. Remove the 2 screws already installed on each leg.
2. Move legs to the desired height.
3. Re-install the screws to secure in place.

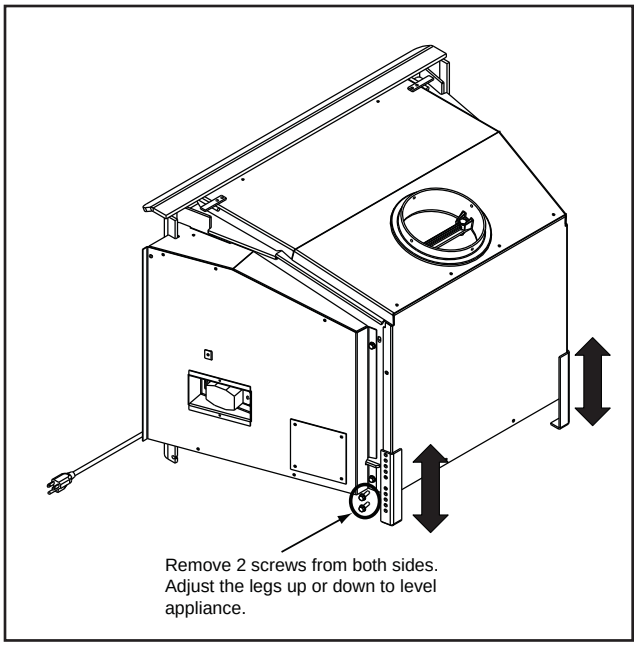

Figure □□.3

□. □e□uri□g □□□i□□□e □□ □□□□e □i□e□□i□er

1. □nce you have the appliance in place and secured, remove the tube channel assembly, baffle board and ceramic blanket. Detailed instructions are found on □□ge□ **23** □□□ **2**□.
2. Reach up through the flue opening and grab the attachment bar and pull down inside flue opening. **Figure** □□.□.
3. Insert the 5/16 bolts inside the cast flue and through the chimney mounting bar. Securely tighten the nuts. □asteners are provided.
4. Re-install the tube channel assembly, baffle board, ceramic blanket and baffle protection channel.

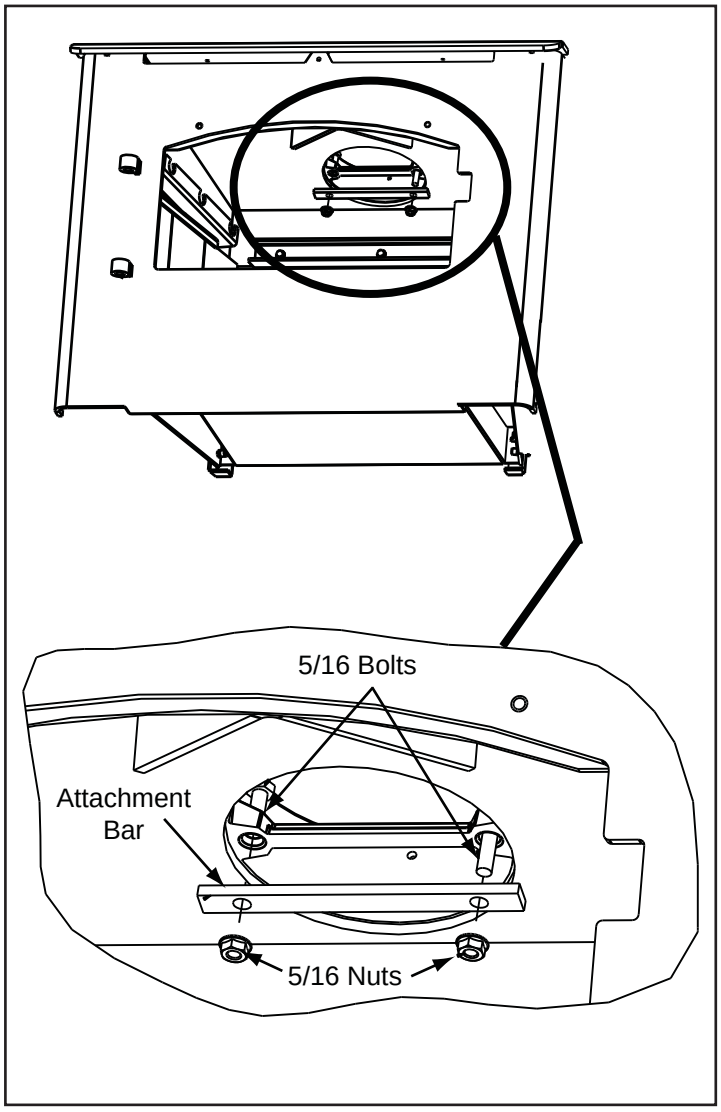

Figure □□.□

F. □□□□□□r□ □urr□u□□ □ □ri□ □i□□□□□□□□□i□□

Standard Si□e: 43 in. W □31 in. □
Large Si□e: 51 in. W □34 in. □

1. Lay surround face down on a protected surface to prevent scratching.
2. □sing a 4 to 6 inches long Phillips head screw driver attach the side surrounds to the top surround using (2) □□ sheet metal screws on each side provided with the kit. **Figure** □□.**2**.
3. Lay the trim face down and place the corner brackets into position.
4. Using a standard flat screw driver tighten the corner brackets. **Figure** □□.**3**.
5. Slide the assembled trim set over the surround set. and then over the appliance matching the mounting tabs on the side pieces with the slots on the appliance. **Figure** □□.**2.**
6. Align the 2 screws in the top surround piece to the 2 alignment holes on the appliance top. Secure in place. **Figure** □□.**2**.
7. □se the strain relief in the surround side for blower cord installation and use the cover plug to insert into the hole where the blower cord is not installed.

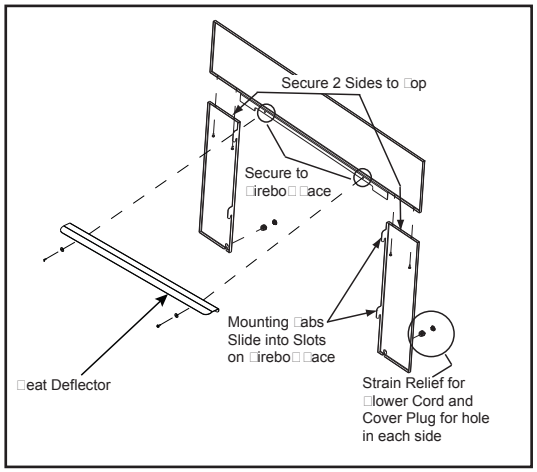
Secure 2 Sides to □op
Secure to □irebo□ □ace
Mounting □abs Slide into Slots on □irebo□□ace
□eat Deflector
Strain Relief for □lower Cord and Cover Plug for hole in each side

Figure □□.**2**

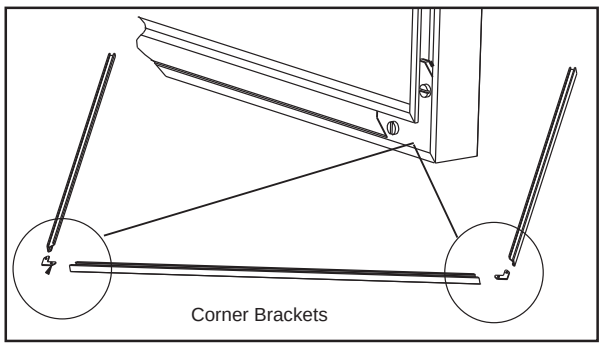

Figure □□.**3**

□. □□□□□r□ □urr□u□□ □ □□□□ri□ □i□

Standard Si□e: 42-1/2 in. W □30 in. □
Large Si□e: 4□ in. W □34 in. □

□□u□e□ i□ □urr□u□□ □i□□ (2) side pieces, left and right; (1) l top piece; (1) fastener package.

□□u□e□ i□ □□□□ri□ □i□□ (2) cast trim legs, left and right; (1) cast trim header; (2) cast trim footers, left and right; (1) fastener package.

□□□□ □ee□e□□Powered 4 to 6 inches long Phillips head screw driver; pliers

1. Remove contents from bo□ being careful not to scratch or damage the cast trim pieces.
2. Lay surround face down on a protected surface to prevent scratching.
3. □sing a 4 to 6 inches long Phillips head screw driver attach the side surrounds to the top surround using (2) #8 sheet metal screws on each side provided with the kit
4. Place the peel and stick round felt vibration insulation pads on the front side in each corner of the top metal piece and on the back side in each corner of the top cast piece. **Figure □2.□.**
5. Place the corresponding cast trim pieces (2 cast trim sides and 1 cast trim header) underneath the panel set, also face down. Align the holes in the metal pieces with the 5 bosses on the top cast piece and 2 bosses on each side piece.
6. Secure the magnet to the bracket and attach the magnet and bracket to each metal side piece at the bottom. □he magnet is facing the front. **Figure □2.2.**

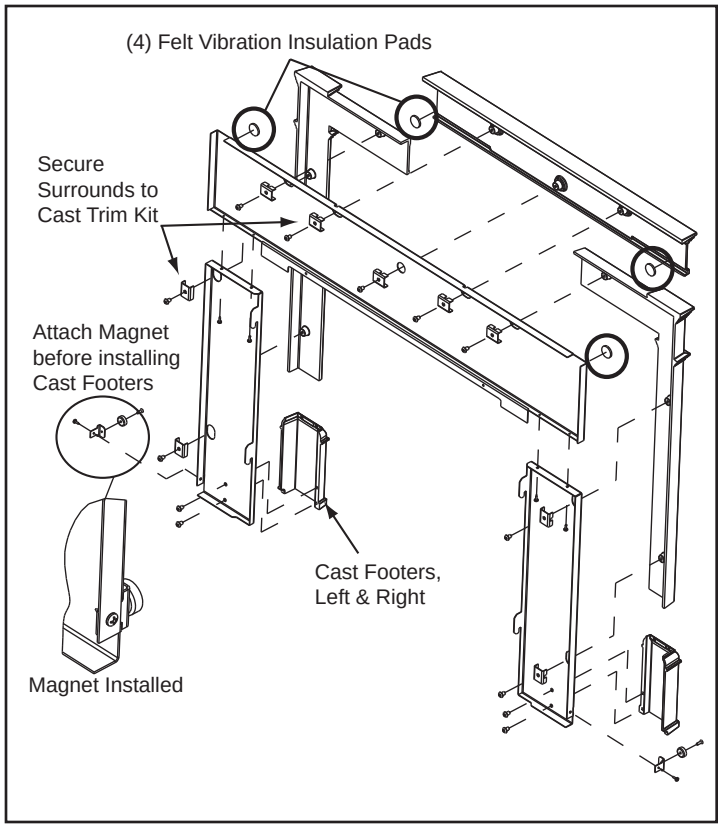
(4) Felt Vibration Insulation Pads
Secure Surrounds to Cast Trim Kit
Attach Magnet before installing Cast Footers
Cast Footers, Left & Right
Magnet Installed

Figure □2.□

7. Place the cast footers under the metal sides aligning the top and bottom holes in the cast footers and metal sides.
8. □he □ mounting clips are shipped in one long strip. □and break apart or use pliers.
9. □ach clip has a clearance notch to allow room for the cast on the insert. Place the clip so the notch is facing the outer edges of the surrounds. **Figure □2.3.**
10. □t is best to install all of the 1/4-20 screws only half way at first to allow for adjustments. After adjustment, tighten the 2 screws in each cast footer first and then work your way around to the rest.
11. Slide surround and trim over the top of the insert into place matching the mounting tabs on the metal sides with the slots on the insert. **Figure □2.□.**
12. Align the 2 screws in the top metal surround piece to the 2 alignment holes on the appliance top. Secure in place. **Figure □2.□.**

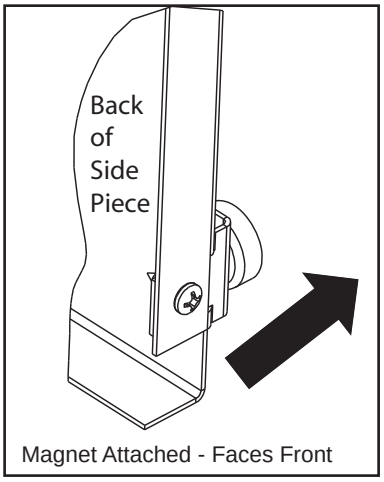

Figure □2.2

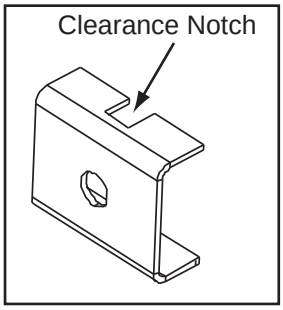

Figure □2.3

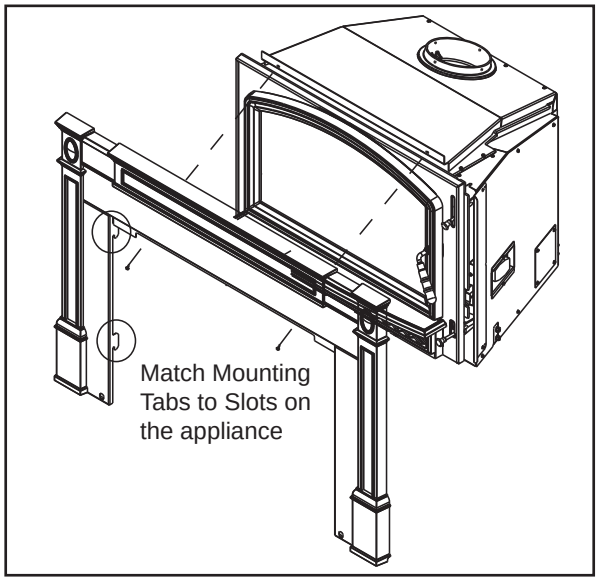

Figure □2.□

. Surround Installation

Size: 40 in. W x 30 in. H

Surround includes: (2) side pieces, left and right; (1) top piece; (1) fastener package.

Tools needed: Battery Powered 4 to 6 inches long Phillips head screw driver; pliers

1. Remove contents from box being careful not to scratch or damage the cast trim pieces.
2. Lay surround pieces face down on a protected surface to prevent scratching.
3. Align the bosses on the top piece to the holes on the side pieces. Secure the 3 pieces together.
4. Attach the mounting brackets to the side pieces included with the kit. **Figure 43.1**.
5. In order to get a tight seal for the surround, you must reposition a side shield. There are two holes on the shield and it will come from the factory secured in the first (left) hole. Remove the shield and re-install using the second (right) hole. Figure 43.2.
6. Position the trim on the appliance matching up the mounting brackets with the slots on the appliance.
7. Attach the surround to the appliance 2 screws. Do not overtighten - may damage porcelain finish. **Figure 43.2**.

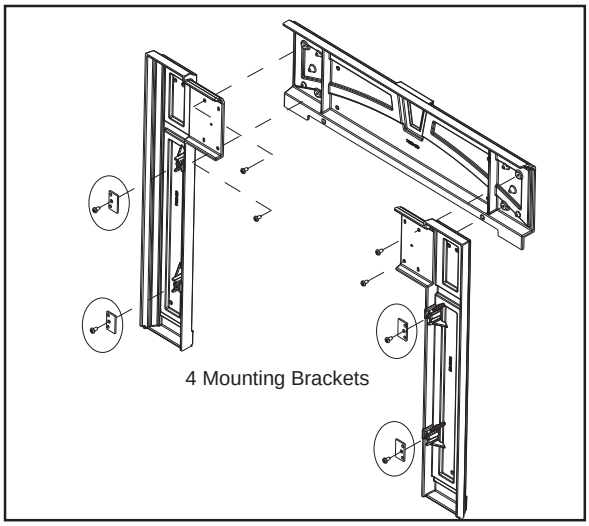

Figure 43.1

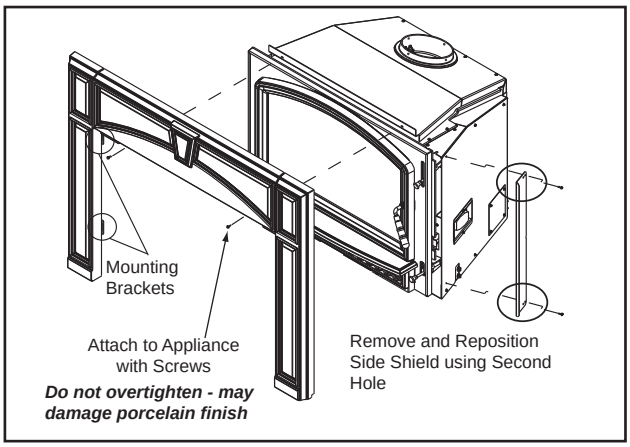
Mounting Brackets
Attach to Appliance with Screws
Do not overtighten - may damage porcelain finish
Remove and Reposition Side Shield using Second Hole

Figure 43.2

. Blower Cord Relocation

The blower cord is shipped to be installed on the right side of the appliance. You may relocate the cord so it is on the left side.

Overview: You are removing the power cord from the blower controls, re-routing the cord to the left side and re-installing the power cord to the blower controls. Refer to the exploded drawing on Page 44.

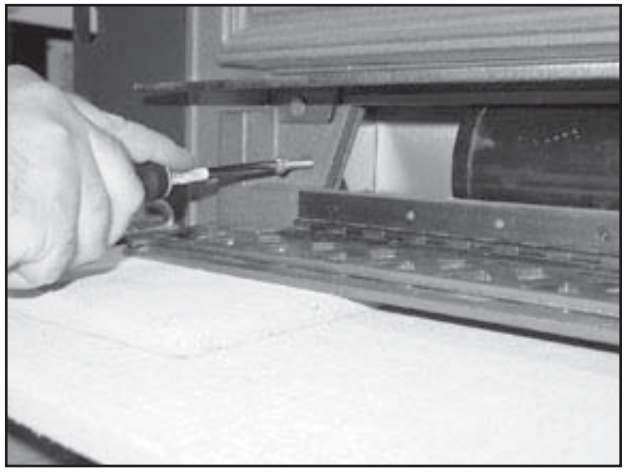

Figure 43.3

1. Swing the grille down to expose the 2 bolts, one at each end. Remove the bolts and pull blower access assembly away from appliance and store away from your work area.

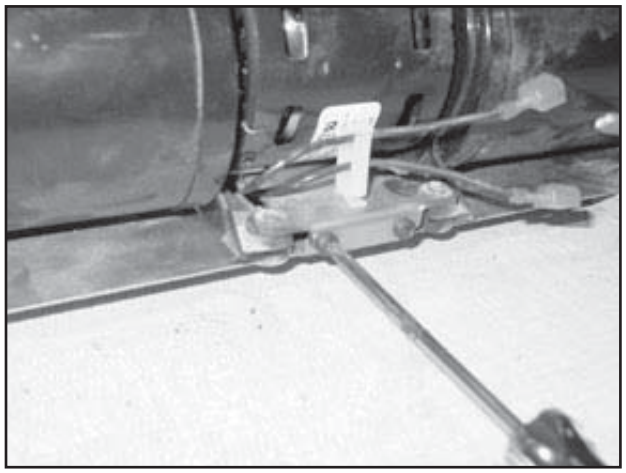

Figure 43.4

2. Remove the 2 screws in the hold down bracket in front of the blower assembly. You do not need to remove the blower from the hold down bracket.
3. Disconnect the 2 blower wires that are attached to the wire harness and pull the blower assembly away from the appliance.

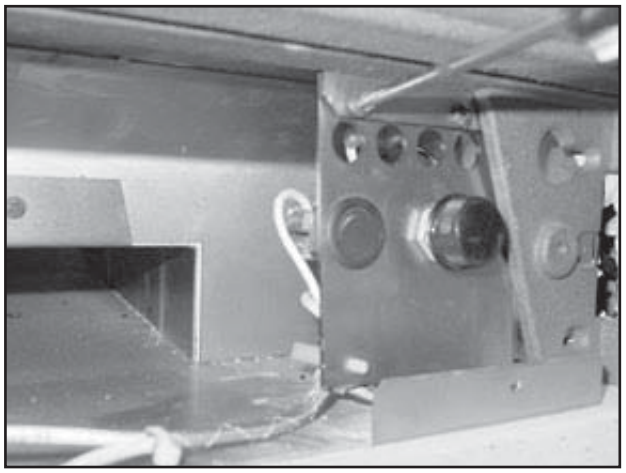

Figure □□.□

4. Remove the 2 screws at the top of the control plate. Push the bottom of the control plate to the inside of the appliance and partially remove the control plate assembly.

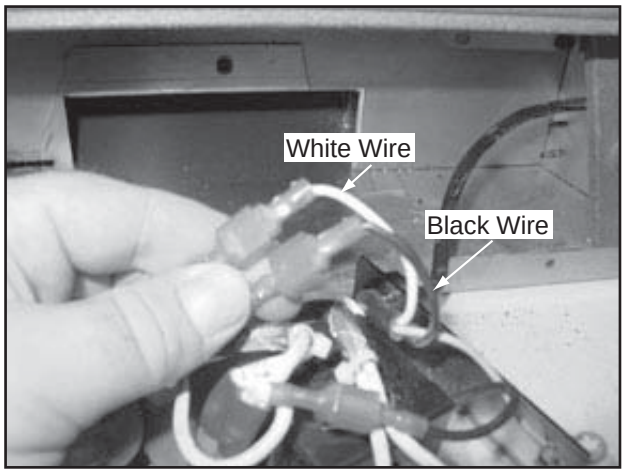

Figure □□.2

5. Locate the black and white wires that are part of the power cord and disconnect those wires from the wire harness.

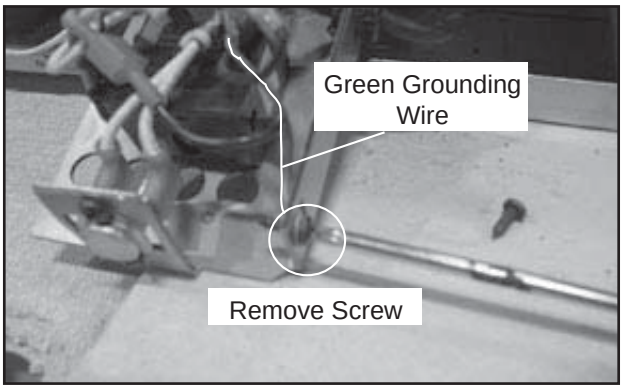

Figure □□.□

6. Remove the screw that is holding the ground lug to the control plate.

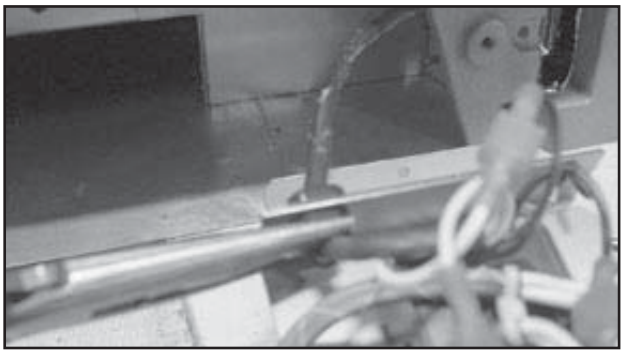

Figure □□.□

7. □se needle nose pliers to remove the strain relief that protects the power cord from the control plate.

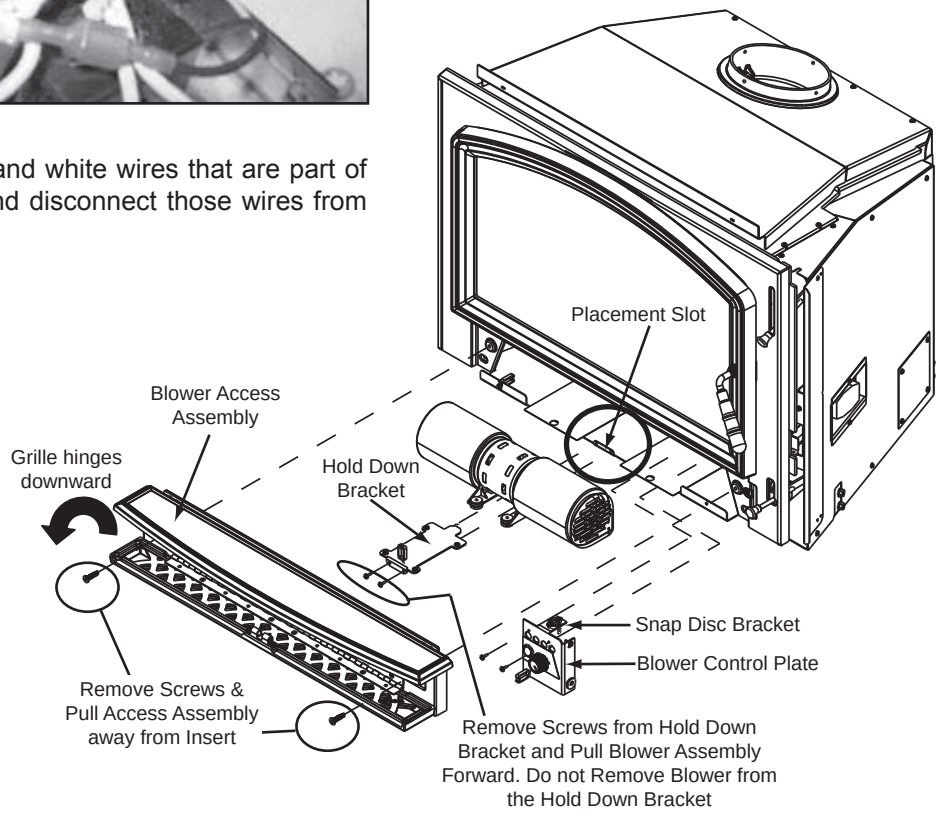
Placement Slot
Blower Access Assembly
Grille hinges downward
Hold Down Bracket
Snap Disc Bracket
Blower Control Plate
Remove Screws & Pull Access Assembly away from Insert
Remove Screws from Hold Down Bracket and Pull Blower Assembly Forward. Do not Remove Blower from the Hold Down Bracket

Figure □□.3

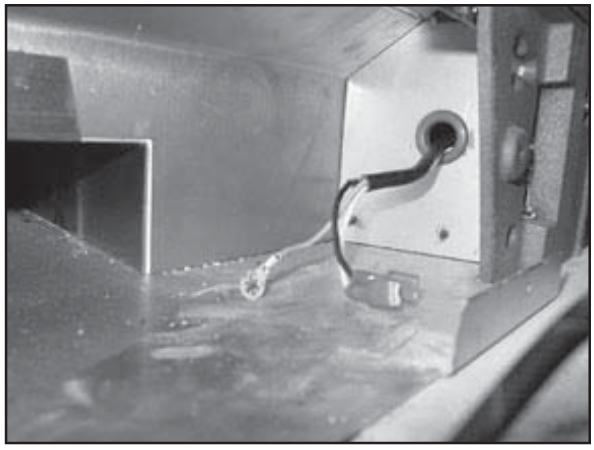

Figure □□.□

□. □he power cord is now disconnected from the blower control plate. Pull the cord out through the right side of the appliance.

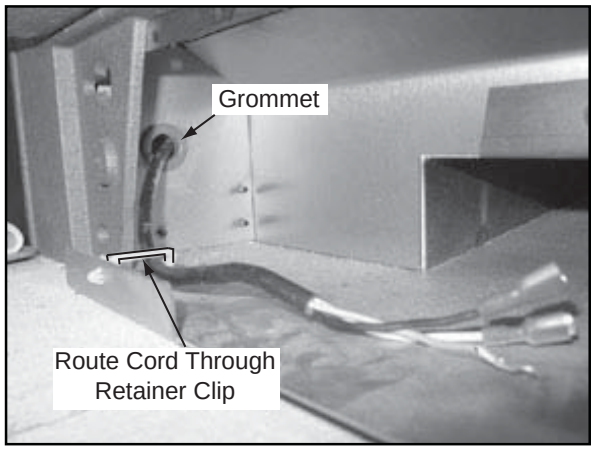

Figure □□.2

□. □nsert the power cord throught the left side of the appliance in the hole contains the grommet. Pull the connection ends to the right side. Route the power cord through the retainer clip.

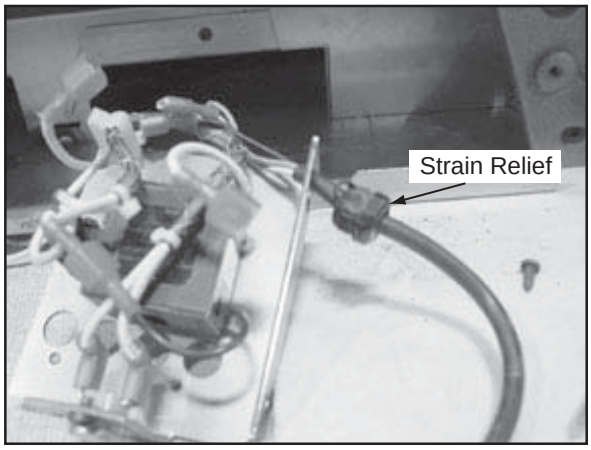

Figure □□.3

10. Replace the strain relief on the power cord in the same position as before. Locate the indentation on the cord made by the strain relief. □nce replaced, push the strain relief back into the control plate.

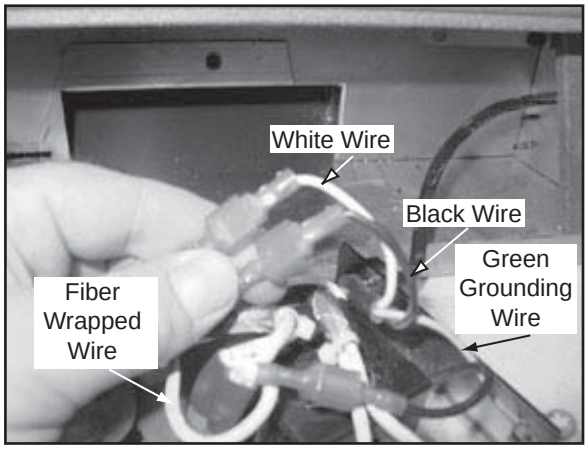

Figure □□.□

11. Connect the white wire on the power cord into the fiber wrapped wire on the wire harness. Connect the black wire on the power cord to the white wire on the rheostat. Re-attach the green ground terminal to the control plate.

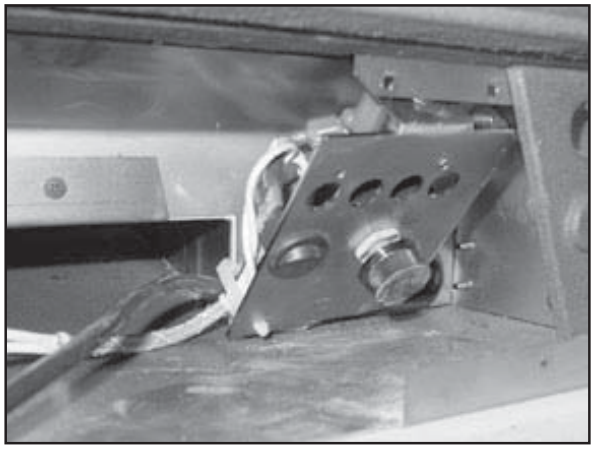

Figure □□.□

12. □nsert the control plate assembly back into the appliance as shown. □ilt the assembly forward and then lift up and rotate the bottom towards the front of the appliance at the same time ensure that the snap disc holder is properly seated. Secure plate to the appliance.

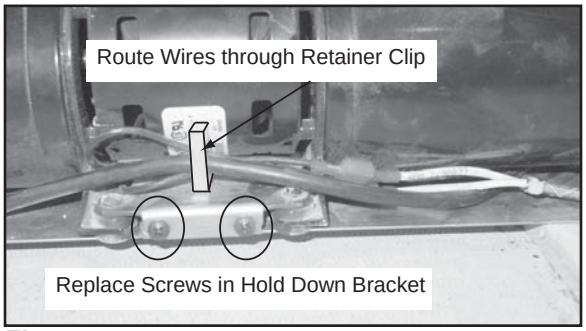

Figure □□.□

13. Push in the blower and hold down bracket into appliance matching up the tab on the bracket and placement slot on the appliance. Secure bracket and reconnect blower wires (no polarity to worry about) routing wires through the retainer clip.

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1. An outside air inlet must be provided for combustion and must remain clear of leaves, debris, ice and/or snow. □t must be unrestricted while unit is in use to prevent room air starvation which can cause smoke spillage and an inability to maintain a fire. Smoke spillage can also set off smoke alarms.
2. □nit must be secured to the mobile home structure. Remove bolts from each side of insert and use plumbers tape to secure to structure (a washer may be required). Re-install bolts.
3. □nit must be grounded with □□ solid copper grounding wire or e□uivalent and terminated at each end with □.□.C. approved grounding device.
4. The factory-built fireplace must meet (UM)84-HUD re□uirements for outside combustion air supply to the fireplace fire chamber and the chimney must be listed to UL103 HT or a listed UL-1777 full length six inch (152mm) diameter liner must be used. □t must be e□uipped with a spark arrestor cap and the outside air must be installed on the insert.
5. Refer to □□**ge 3**□ of this manual for clearance to combustibles and floor protections requirements. All clearances must be followed precisely.
6. □se silicone to create an effective vapor barrier at the location were the chimney or other component penetrates to the e□terior of the structure.
7. □ollow the chimney and chimney connector manufacturer□s instructions when installing the flue system for use in a mobile home.
8. □urn wood only. □ther types of fuels may generate poisonous gases (e.g., carbon monoxide).
9. □f unit burns poorly while an e□haust blower is on in home, (i.e., range hood), increase combustion air.
10. □nstallation shall be in accordance with the Manufacturers Home & Safety Standard (HUD) CFR 3280, Part 24.

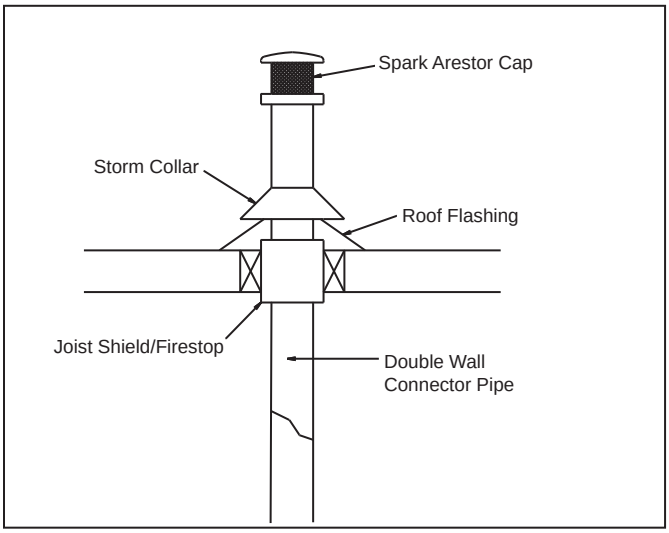

Figure □□.□

WARNING

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- NEVER INSTALL IN A SLEEPING ROOM.

Consumes o□ygen in the room.

WARNING

Fire □i□□.

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Do not draw outside combustion air from:

- Wall, floor or ceiling cavity
- Enclosed space such as an attic or garage
- Close proximity to exhaust vents or chimneys.

□umes or odor may result

□□□□□□

- Offsets from the vertical, not exceeding 45°, are allowed per Section 905(a) of the Uniform Mechanical Code (UMC).
- Offsets greater than 45° are considered horizontal and are also allowed, providing the hori□ontal run does not e□ceed 75□ of the vertical height of the vent.
- Construction, clearance and termination must be in compliance with the □MC □able □C. □his installation must also comply with NFPA 211.

□□□□□□□op sections of chimney must be removable to allow maximum clearance of 13.5 feet (411cm) from ground level for transportation purposes.

CAUTION

THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL AND CEILING/ROOF MUST BE MAINTAINED

Do □□□ cut through:

- Floor joist, wall, studs or ceiling trusses.
- Any supporting material that would affect the structural integrity.

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5. Blower Operation

QUADRA-FIRE®

CONTACT INFORMATION

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DO NOT DISCARD

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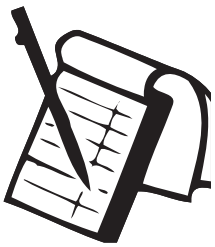
- □mportant operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



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Date purchased/installed: _____

Serial □umber: _____ Location on appliance: _____

Dealership purchased from: _____ Dealer phone: _____

□otes: _____

_____

_____

□his product may be covered by one or more of the following patents: □nited States□5341794, 5263471, 6688302, 7216645, 7047962 or other U.S. and foreign patents pending.

HEARTH&HOME technologies